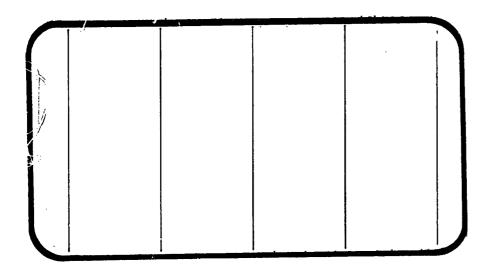


BATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-134108) RESULTS OF TRANSONIC WIND TONNEL TESTS ON AN 0.015-SCALE SPACE SHUTTLE MATED VEHICLE MODEL (67-OTS) IN THE LARC 8 FOOT (Chrysler Corp.) 400 p HC \$23.00 CSCL 22B

N74-33322

Unclas G3/31 48545



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services



DMS-DR-2118 NASA CR-134,108

RESULTS OF TRANSONIC WIND TUNNEL TESTS

ON AN 0.015-SCALE SPACE SHUTTLE MATED VEHICLE

MODEL (67-OTS) IN THE Larc 8-FOOT TPT (IA41)

By

R. Hardin and R. Burrows Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services Chrysler Corporation Space Division New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center National Aeronautics and Space Administration Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:

LaRC 8-Foot TPT 667

NASA Series No.:

IA41

Test Date:

11 through 14 December 1973

Model No.:

67-0TS

Occupancy Hours: 64

0/-01. CA

FACILITY COORDINATOR:

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FOR N. D. Kemp Data Management Services

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RESULTS OF TRANSONIC WIND TUNNEL TESTS ON AN 0.015-SCALE SPACE SHUTTLE MATED VEHICLE MODEL (67-OTS) IN THE Larc 8-FOOT TPT (IA41)

By R. Hardin and R. Burrows, Rockwell International Space Division

ABSTRACT

This report contains the results of wind tunnel tests of the NASA/Rockwell 0.015-scale Configuration 4 Mated Space Shuttle Vehicle.

The tests were conducted to obtain aerodynamic force data for Mach numbers from 0.60 to 1.20. Data were obtained for an alpha range of -10° to +10° (β = 0°, β = 5°) and beta range of -10° to +10° (α = 0°).

A complete model build-up was performed. Longitudinal and lateral-directional stability and control data were obtained for tank alone, tank plus SRB's, tank plus Orbiter, and mated configuration of tank + Orbiter + SRB's.

Single-component rudder hinge moment data were obtained at rudder deflections of 0° and -20° for each Mach number tested.

Plots of aerodynamic coefficients vs. Mach number are presented, using data from both test IA41 and tests LRC-UPWT-1056, 1073 (IA42A/B) for Mach numbers of 1.60 to 4.63. The model tested in IA42A/B was the same model as tested in IA41.

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Schedule of Coefficie - Plotted:

- A) CAFT, CABT, CN, CLM vs ALPHA; CN vs CLM
- B) DCN/DA, DCLMDA, XAC/L, CAFAFO, CABAFO, CNALFO, CLMAFO vs Mach
- C) CY, CYN, CBL vs BETA; CY vs CYN
- D) DCY/DB, DCYNDB, DCBLDB, DCYNDB, DCY/DB, YAC/L vs Mach
- E) CAFDRO, CN/DRO, CLMDRO, CYDRO, CYNDRO, CBLDRO vs Mach
- F) CY/DRO, CYNDRO, CBLDRO vs Mach

NOMENCLATURE General

SYMBOL	SADSAC SYMBOL	DEFINITION
\boldsymbol{n}		speed of sound; m/sec, ft/sec
c_p	CP	pressure coefficient; $(p_1 - p_{\infty})/q$
М	MACH	Mach number; V/a
p		pressure; N/m ² , psf
Q	Q(NSM) Q(PSF)	dynamic pressure; 1/2pV2, N/m2, rsf
RN/L	RN/L	unit Reynolds number; per m, per ft
v		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
$oldsymbol{\psi}$	PSI	angle of yaw, degrees
φ	PHI	angle of roll, degrees
P		mass density; kg/m3, slugs/ft3
	Re	eference & C.G. Definitions
Ab .		base area; mo, fto
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
eref ē	LREF	reference length or wing mean aerodynamic chord; m, ft
SREF	SREF	wing area or reference area; m2, ft2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis
SUBSCRIPTS b 1 s t	3	base local static conditions total conditions free stream

NOMENCLATURE (Continued) Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
c_{N}	CN	normal-force coefficient; normal force
c _A	CA	axial-force coefficient, axial force qS
c _¥	CY	side-force coefficient; side force qS
c_{A_b}	CAB	base-force coefficient: $\frac{\text{base force}}{q^S}$
		$-A_b(p_b - p_{\infty})/qS$
$^{\mathrm{C}}\!\mathrm{A}_{\mathbf{f}}$	CAF	forebody axial force coefficient, C CAb
C _m	CLM	pitching-moment coefficient: pitching moment qs l_{REF}
c_n	CYN	yawing-moment coefficient: yawing moment qSb
c 1	CBL	rolling-moment coefficient; rolling moment qSb
		Stability-Axis System
$c_{\mathbf{L}}$	CL	lift coefficient; lift qS
c_D	CD	drag coefficient; $\frac{\text{drag}}{\text{qS}}$
c_{D_b}	CDB	base-drag coefficient; base drag
$\mathbf{c}_{\mathtt{D}_{\mathbf{f}}}$	CDF	forebody drag coefficient; CD - CDb
$\mathbf{c}_{\mathbf{Y}}$	CY	side-force coefficient; side force qS
C _m	CIM	pitching-moment coefficient: pitching moment
c_n	CLN	yawing-moment coefficient; yawing moment q3b
c _L	CSL	rolling-moment coefficient; rolling moment
L/D	r/d	lift-to-drag ratio; C _L /C _D

NOMENCLATURE (Continued) Additions to Standard List

Symbol	SADSAC Symbol	<u>Definition</u>
A _b ACPS		attitude control propulsion system base area, ft ² (total for two)
A _{bET}		external tank total base area, ft ²
A _b oms		orbital maneuvering system base area (total for two), ft^2
A _b ORB		total Orbiter base area, ft ²
A _b SRB		SRB shroud base area (minus projected nozzle base area), ft ² (total for two)
A _b srbn		SRB nozzle base area ft ² (total for two)
A _{cET}		external tank cavity area, ft ²
A _c ORB		Orbiter cavity area, ft ²
C _{ABAL}		balance chord force coefficient (uncorrected)
C _A ACPS		attitude control maneuvering system base chord force coefficient
$^{\mathrm{c}}{_{\mathrm{A}_{\mathrm{b}}}}_{\mathrm{ET}}$		external tank base chord force coefficient (based on ${\bf A_{\rm b}}_{\rm ET}$
c _{Aboms}		Orbital maneuvering system base chord force coeffic- lent
c _{Aborb}		Orbiter base chord force coefficient (based on ${\rm A_{\mbox{\footnotesize b}}}_{\rm ORB}$

1

	SADSAC	NOMENCLATURE (Continued) Additions to Standard List
Symbo1	Symbol	<u>Definition</u>
C _{A.b} SRB		SRB shroud base chord force coefficient
C _{Ab} srbn		SRB nozzle base chord force coefficient
C*A _{bET}		external tank base chord force coefficient (base on ${\sf A_{C}}$)
C*A _{bORB}		Orbiter base chord force coefficient (based on Ac and Orbiter base pressure ORB
c _{AcET}		<pre>external tank cavity chord force coefficient (corrected to base pressure)</pre>
CACORB		Orbiter cavity chord force coefficient (corrected to base pressure)
C*A _{CET}		external tank cavity chord force coefficient (based on A _{CET}
C*A _{CORB}		Orbiter cavity chord force coefficient (based on A _C and Orbiter cavity pressures) ORB
$^{c_{A_{f_{t}}}}$	CAFT	mated vehicle total forebody chord force coefficient
c_{Ab_t}	CABT	mated vehicle total base chord force coefficient
c _p ()	CP	base and cavity pressure coefficient
Mo		tunnel freestream Mach number
OTS		Orbiter + tank + SRB's
MRP(X _T ,1	(_T ,Z _T)	moment reference point is in ET coordinate system

NOMENCLATURE (Continued) Additions to Standard List

Symbol	SADSAC Symbol	Definition
۲()		model pressure denoted by subscript
Po		tunnel freestream static pressure, psia
P _T		tunnel freestream total pressure, psia
RN		tunnel Reynolds number per foot
S _{REF}	SREF	reference area, ft ²
To		tunnel freestream static temperature, °R
T_{T}		tunnel freestream total temperature, °R
WF()		model pressure weighting factor, either 1 or 0
d _{Cm} /d _{CN}	XAC/L	longitudinal static stability derivative, pitching moment coefficient alpha derivative divided by normal force coefficient alpha derivative, (-1) (d_{C_m}/d_{C_N}) , body axis system
d _{Cm} /d _{Cy}	YAC/L	lateral static stability derivative, yawing moment coefficient beta derivative divided by the side force coefficient beta derivative, $(-1)(dc_{\rm HI}/dc_{\rm y})$, body axis system.
Xo		orbiter langitudinal station, inches
XT		tank longitudinal station, inches
Yo		orbiter spanwise station, inches
YT		tank spanwise station, inches
δe	ELEVON	elevon deflection (δ_{eL} + δ_{eR})/2, degrees
δ _r	RUDDER	rudder deflection, degrees
δSB	SPDBRK	speedbrake deflection, degrees
δ _{BF}	BDFLAP	body flap deflection, degrees

NOMENCLATURE (Concluded) Additions to Standard List

Symbol .	SADSAC Symbol	Definition
C _{N_{cs}}	DCN/DA	derivative of normal force coefficient with respect to alpha, (alpha = \pm 5°), per degree
C _{mox}	DCLMDA	derivative of pitching moment coefficient with respect to alpha, (alpha = \pm 5°), per degree
dC _n /d ₃	DCYNDB	yawing moment coefficient gradient with respect to sideslip angle
dC _ℓ /d _β	DCBLDB	rolling moment coefficient gradient with respect to sideslip angle
dCy/d _B	DCY/DB	side force coefficient gradient with response to sideslip angle
$(c_{A_{f_t}})_{\alpha=0}$	CAFAFO	forebody chord force coefficie t at zero degrees angle of attack
$(CA_{B_t})_{\alpha=0}$	CABAFO	base chord force coefficient at zero degrees angle of attack
(CN) α=0	CNALF0	normal force coefficient at zero degrees angle of attack
$(C_m)_{\alpha=0}$	CLMAFO	pitching moment coefficient at zero degrees angle of attack
$(c_{Aft} \delta_R)_{\alpha=0}$	CAFDRO	forebody chord forces coefficient gradient with rudder deflection at zero alpha
$(c_{N\delta R})_{\alpha=0}$	CN/DRO	normal force coefficient gradient with rudder deflection at zero alpha
$(c_{m\delta_R})_{\alpha=0}$	CLMDRO	<pre>pitching moment coefficient gradient with rudder deflection at zero alpha</pre>
$(c_{y\delta_R})_{\alpha=0}$	CYDRO	side force coefficient gradient with rudder deflection at zero alpha
$(c_{N\delta R})_{\alpha=0}$	CYNDRO	yawing moment coefficient gradient with rudder deflection at zero alpha
$(C_{\ell_{\delta_R}})_{\alpha=0}$	CBLDRO	rolling moment coefficient gradient with rudder deflection at zero alpha
	DLTRUD	difference between rudder deflection of two data sets, degrees

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CONFIGURATIONS INVESTIGATED

The model (67-0TS) tested was a mated shuttle vehicle that had build-up capability. Model build-up was performed with the following configuration combinations: tank alone, tank + SRB's, tank + Orbiter, and tank + SRB's + Orbiter.

The Orbiter was a cast aluminum representation of model 49-0; an 0.015-sca configuration 140A/B Orbiter. The Orbiter rudder had a single-component strain-gaged beam at the hingeline and could be set at 0° and -20°. The Orbiter bodyflap had settings of -11.7°, 0°, and +25°. Orbiter elevons could be set at +15°, 0°, -40°.

The internal balance could be mounted in either the tank or the Orbiter.

The tank and SRB's were made of aluminum and all attach hardware and protuberances were simulated for the tank, SRB's, and Orbiter.

The following table summarizes the model configurations and their corresponding nomenclature:

Tab Data Configuration	Description
01	B_{26} , C_{9} , W_{116} , E_{26} , F_{7} , M_{7} , N_{72} , R_{5} , V_{8} , X_{25}
T ₁	T ₁₂ (Baseline), X ₂₅
Τ ₂	T ₁₃ (Baseline with 1208 inch radius tangent ogive nose)
T ₄	T ₁₈ (Shortened Baseline)
s ₁	S ₁₂ (Baseline), N ₄₁ , X ₂₅
P ₁	PT_{1} , PT_{2} , PT_{3} , AT_{5} , AT_{12} , AT_{13} , AT_{14} AT_{9} , FL_{1} , FL_{2}

P ₂	PS1, PS2, PS3
P ₄	PT2, PT3, PT5, AT5, AT12, A113, AT14.
•	ATg, FL1, FL2
P ₆	PT ₂ , PT ₃ , PT ₇ , AT ₅ , AT ₁₂ , AT ₁₃ , A ⁻ 14,
•	ATg, FL1, FL2
FR ₁	FR ₁ (Umbilical door fairing)

The model base was instrumented with pressure orifices as shown in figure 2. These pressures were manifolded as shown below:

i for C _{pi} in Data <u>Reduction (Manifold no.</u>)	Location	Tap No. (Figure 2L)
1	orbiter cavity tank cavity	16 17 (BAL. IN ORB.) 18, 19 (BAL. IN TANK)
2	orbiter base	1, 2, 3, 4
3	tank base	7, 8, 9, 10, 11, 12
4	SRB nozzle base	15
5	SRB shroud base	13, 14
6	OMS & ACPS base	5, 6

TEST FACILITY DESCRIPTION

NASA/Langley Research Center 8-Foot Transonic Pressure Tunnel is an air-medium facility capable of attaining continuously variable Mach numbers from 0.20 to 1.30. It is a single-return, closed-circuit tunnel having controlled stagnation temperature, total pressure, and dew-point temperature. The test section is 7.1 feet square. Reynolds numbers are variable from $0.30 \times 10^6/\text{foot}$ to $7.00 \times 10^6/\text{foot}$, depending on Mach number and tunnel total-pressure limitations. Models are supported in the test section by a sting-sector system, but wall-mounting is possible. Schlieren photography is available for flow and shock-wave studies.

DATA REDUCTION

Vehicle Total Chord Force Coefficient ($C_{A_{\overline{1}}}$) was computed using the following equations:

$$c_{A_{T}} = c_{A_{BAL}} + c_{A_{C_{ORB}}} + c_{A_{C_{ET}}}$$
 (1)

Where:

$$c_{A_{C_{ORB}}} = -c_{A_{C_{ORB}}}^{\star} + c_{A_{b_{ORB}}}^{\star}$$
 (2)

$$c_{A_{c_{ET}}} = -c_{A_{c_{ET}}}^* + c_{A_{b_{ET}}}^*$$
 (3)

and: (for balance mounted in Orbiter)

$$c_{A_{CORB}}^{*} = -c_{P(1)}(A_{CORB}/S_{REF})WF$$
 (1)

$$c_{A_{b_{ORB}}}^{*} = -c_{P_{(2)}}(A_{c_{ORB}}/S_{REF})WF_{(2)}$$
 (5)

(for balance mounted in Tank)

$$c_{A_{c_{ET}}}^{\star} = -c_{P(1)}(A_{c_{ET}}/S_{REF})WF(1)$$
 (6)

$$c_{A_{b_{ET}}}^{*} = -c_{P(3)}(A_{c_{ET}}/S_{REF})WF(3)$$
 (7)

Forebody Chord Force Coefficient ($C_{A_{f_t}}$) was computed as follows:

$$c_{A_{f_t}} = c_{A_T} - c_{A_{b_{ORB}}} - c_{A_{b_{OMS}}} - c_{A_{b_{ACPS}}} - c_{A_{b_{SRB}}}$$

$$- c_{A_{b_{SRBN}}} - c_{A_{b_{ET}}}$$
(8)

Where:

$$c_{A_{b_{ORB}}} = -c_{P_{(2)}} (A_{b_{ORB}}/S_{REF}) WF_{(2)}$$
 (9)

$$c_{A_{b_{OMS}}} = -c_{P(6)}(A_{b_{OMS}}/S_{REF})WF(6)$$
 (10)

$$c_{A_{b_{ACPS}}} = -c_{P(6)} (A_{b_{ACPS}}/S_{REF}) WF(6)$$
 (11)

$$c_{A_{b_{SRB}}} = -c_{P_{(5)}} (A_{b_{SRB}}/S_{REF}) WF_{(5)}$$
 (12)

$$c_{A_{b_{SRBN}}} = -c_{P(4)}(A_{b_{SRBN}}/S_{REF}) WF(4)$$
 (13)

$$c_{A_{b_{ET}}} = -c_{P(3)}(A_{b_{ET}}/S_{REF})WF(3)$$
 (14)

$$c_{A_{b_T}} = c_{A_T} - c_{A_{f_t}}$$
 (15)

Weighting factor (WF) values are presented in table IV.

The following reference dimensions and constants were used:

	full scale	model scale
A _b ACPS	37.778 ft ²	0.0085 ft ²
A _b ET	572.555 ft ²	0.1288 ft ²
A _b oms	52.90 ft ²	0.0117 ft ²
A _b ORB	337.778 ft ²	0.076 ft ²
A _b _{SRB}	184.332 ft ²	0.0414 ft ²
A _b srbn	217.792 ft ²	0.0490 ft ²

A _{CET}			0.0218 ft ²
A _c ORB			0.0340 ft ²
ℓ_{REF}	b REF	1290.3 in	19.355 in
MRP	x _T	976 in	14.640 in
	YT	0 in	0 in
	z _†	400 in	6.0 in
S _{REF}		2690 ft ²	0.6053 ft ²
Sr		100.15 ft ²	0.0225 ft ²
ō _r		73.7 in	1.106 in

REFERENCES

Model Drawings

SSA-01166 'Orbiter, ET, and SRB Assembly"

SSA-01167 "ET Assembly Details"

SSA-01168 "SRB Assembly Details"

SSA-01169 "UPWT Installation Drawing"

SSA-01170 "8-Foot TPT Installation Drawing"

SSA-01171 "Orbiter Assembly Drawing"

Rockwell Lines Drawing

VL70-000140A/B "Orbiter Configuration Control Drawing MCR 200 $\rm R_{3}$ Baseline dated 7/2/73"

VL70-000145A "Lines Control Vertical Tail Baseline MCR 200 R_1 , dated 5/16/73"

 $\mbox{VL72-000088E}$ "Shuttle Configuration Control MCR 200 Baseline \mbox{R}_{4} dated 8/16/73"

VL77-000036A "SRB Configuration Control MCR 200 R₁, dated 5/16/73"

VL78-000031A "Thermal Protection - External Tank MCR 200 Baseline Dated 4/11/73"

VL78-000041B "External Tank Configuration Control MCR 200 $\rm R_{2}, dated\ 6/11/73"$

VL78-000050 "Fairing/ET/Orbiter Attach Hardware"

Pretest Report

\$D73-SH-0263 "Pretest Information for the 0.015-Scale Space Shuttle Mated Vehicle Tests IA41 and IA42 in the LRC UPWT and LRC 8-Foot TPT."

REFERENCES (Concluded)

Reports

DMS-DR-2119 "Results of Supersonic Wind Tunnel Tests on an 0.015-Scale Space Shuttle Mated Vehicle Model (67-0TS) in the LaRC Unitary Plan Wind Tunnel (IA42)," by Ron Hardin & R. Burrows.

DMS-DR-2120 "Wind Tunnel Tests of an 0.015 Scale Configuration 140A/B Space Shuttle Orbiter Model (67-0) in the NASA/LaRC 8-Foot TPT to Obtain Transonic Aerodynamic Force Data (0A-106)," by R. Burrows.

TABLE I.

EST : LRC 8' TPT 6	67		DATE: 11 Dec 73
IA41	TEST CON	DITIONS	
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (younds/sq.ft.)	STAGNATION TEMPERATUR (degrees Fahrenheit)
0.60	3.19 x 10 ⁶ /ft	418	120
0.80	1.90 x 10 ⁶ /ft	_311	120
0.90	2,00 x 10 ⁶ /ft	355	120
0.98	2.05 x 10 ⁶ /ft	385	120
1.2	2.12 x 10 ⁶ /ft	440	120
			<u> </u>
			
		L	<u> </u>
BALANCE UTILIZED:	LRC #840		
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	800 1b	±0.05%	
SF	250 1ь	±0.05%	
AF	125 1b	±0.05%	
PM	1600 lb	±0.05%	
RM	500 in-1b	±0.05%	
YM	<u>500 1n-1</u> ち	±0,05%	
COMMENTS:			
	18	3	

TABLE II

							-													
	TEST	T	4-41	TEST: IA-41, 8-177-667	12		DAT,	DATA SET/RUN NUMBER COLLATION SUMMARY	N N	BER (2017	TION	SUMM	ARY		DATE:	15/11/	13		
•	DAT	DATA SET		NOT AGUIDING		SCHO.	PAR	PARAMETERS/VALUES		δ. 0. 6	MAC	MACH NUMBERS		OR ALT	ERNAT	E INDEP	I OR ALTERNATE INDEPENDENT VARIABLE	JARIABLE		
	IDENTIFIER	IFIER	ĵ	NEIGURA 110N	0	В	\$			_	.6	8	6	.98	1.2					_
	ROB012		TR		۲	6	0				23	9	59	58	57					
		13	T.P.		0	8	0				99	65	64	63	62		_			
		1		T.P.S.P.	¥	ε	0				7.	76	69	68	67					
		15		T. R. S. P.	O	8	0				91.	75	74	73	72.					
		5	T. P.C.	Q,	٨	0	0				51	50	49	4.8	47					
		-11		Ō	٥	B	0				36	55	54	53	.52					T E
		90		T.P.S. P.O.	. A	0	O				7,6	25	24	23	22					ST
		53		T. P.S. P.O.	.0	B	0				35	ŧ	3	:2	4					RUN
1		91	TR	T.R.S. P.O.	4	5	0				ē	မွ	6	82	77					NUN
9				T. P.S. P.O.	⋖	r	-20				98	85	#8	83	28		_			MBEF
				T.R.S.P.O.	0	8	-20				21	20	61	[138					75
		10	T. P.	ol T. P. S. P.O. R.) A	0	0				in	ก	ĸ	2	•					
		70	TRS	OZ T. R.S. P.O. FR.	0	8	0				9	6	w	7	و.					
		60	T2 P4	09 Tz P45, P20,	4	0	0				. <u>.</u> ç	±5	\$	43	42					
		80	TzR	08 T2P4 S, P2O,	0	8	0			•	न	40	39	30	37					
		90	4	O6 T4 R S, P.O.	A	0	0				ž	8	29	78	12					
		10	14.8	Tapas, Paci	0	80	C				36	35	30	3	32					
										\dashv										
BQ8001-17	SETA		47	C L m	CA 19	"	CA 7	CAFT		4 A B F	43		49		ນາ ພາ	⊸ w	6 PA C 4	# L F 13	•	75 76
RO 8001-17	B.E.T.M.	, i	2 N 2	15.67	500	!	17951	151		5171.1	ICIN KIE	1	122	1	هركطيبييوكان		MACHEL	A L S H A		971
•		00 00 00 00 00	•	•	1 2	- - -	-(04:2	-	COEFFICENTS	ENTS				!			TOVAR (1)	11 10VAR 121		> 0 7
_	V	SCHEDULES	S S		2.1	1	,	23) 4 10			ŧ	,								
]

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONEN	r: Attach	Structure AT5		
GENERAL DESCRI	PTION: For	ward Orbiter/E	F Attach Structure (2 member	er structure)
Model Scale: (0.015			
LRAWING NO	VL72-000088	3 D	-	
DIMENSION:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _o	391	5.865
•		Yo		0 .
		7 ₀	LWR ML	LWR ML
		$X_{\mathbf{T}}$	1132	16.980
		YT	_44	0.66
		$z_{ extbf{T}}$		8.43
	#2	X,	391	5.865
		Yo	0	0
		Z ₀ .	LWR ML	LWR ML
		X _T	1132	16.980
		$\mathbf{Y}_{\mathbf{T}}$	-44	66
		ZŢ	562	8.43
Diemeter	of Members	: •	10.2	0.153

MODEL	COMPONENT	Attach	Structure	ATO	
-------	-----------	--------	-----------	-----	--

GENERAL DESCRIPTION: Aft SRB/ET attach structure (3 member structure to each (3B)

Model Scale: 0.015

DRAWING NO: <u>V172-000106</u>

DIMENSIONS	• MEMBER		FULL SCALE	MODEL SCALE
<i>52.1.</i> 2.10.2.111	#1	x_B	1515	22.725
	"-	Y _B	± 56	<u>+ .840</u>
		z _B	50	.750
		XT	2058	30.870
			+ 158	2.370
		YT		6.75
		z_{T}	450	
	#2	$\mathbf{x}_{\mathtt{B}}$	1515	22.725
		YB	± 76	. <u>± 1.140</u>
		Z _B	18	.270
		x_{T}	2058	30. 870
		YT	160	2.700
		7 T	445	6.675
	#3	ХB	1515	22.725
		YB	<u>± 56</u>	+ .940
		z _B	- 50	750
		XT	2058	30.870
		Y _T	+ 158	± 2.370
		$z_{\mathbf{T}}$	350	5.250
	Diameter of Members:		6.02	0.093

MODEL COMPONENT: ATTACH S	TRUCTURE	- AT ₁₂		
GENERAL DESCRIPTION:L	eft rear	orbiter/ET s	ttach structur	re (2
member structure)				
				درینه واستاری
MODEL SCALE: 0.015	-			
DRAWING NO.: VL78-000050				
DIMENSIONS: - INCHES	MEMBER		FULL SCALE	MODEL SCALE
	# 1.	X ₀ .	1303	19.545
		Yo	- 96	- 1.440
		Zo	258	3.870
		$\mathbf{x_{T}}$	1859	27.875
		$\mathtt{Y}_{\mathbf{T}}$	- 115	- 1.725
		$\mathbf{z_{T}}$	510	7.650
		DIAMETER	12.0	0.180
	#2	x _o	1317	19.755
		Yo	- 96	- 1.440
		Zo	258	3.870
		$\mathbf{x}_{\mathbf{T}}$	2058	30.870
		$\mathbf{Y_{T}}$	- 115	- 1.725
		$z_{\mathbf{r}}$	51.0	7.650
		DIAMETER	8.0	0.120

MODEL COMPONE	NT: ATTA	CH STRUCTURE	- ^{Ат} 13		
GENERAL DESCR		Right rea. o	rbiter/ET at	tach structur	2 (3
MODEL SCALE: DRAWING NO.: DIMENSIONS: -	VL78-000	050 Member		FULL SCALE	MODEL SCALE
Division of the second of the	InditS	#1	X _O Y _O 2 _O X _T YT Z _T DIAMETER	1313 + 96 258 1859 115 510 12.0	19.695 1.44 3.870 27.885 1.725 7.650 0.180
		# 2	X _O Y _O Z _O X _T Y _T Z _T DIAMETER	1317 + 96 258 2058 115 510 8.0	19.755 1.440 3.870 30.870 1.725 7.650 0.120
	٠	#3	X _o Y _o Z _o X _T Y _T Z _T DIAMETER	1317 96 258 2058 0 565 8.0	19.755 1.440 3.870 30.870 0 8.490 0.120

MODEL COMPONENT: Attach Struc	ture - AT1	<u> </u>	
GENERAL DESCRIPTION: Forward	SRB/ET at	tach structure	
Model Scale: 0.015			
DRAWING NO: <u>VL77-000051A</u>			
DIMENSION: - INCHES		FULL SCALE	MODEL SCALE
	$x_{\mathbf{B}}$	404	6.060
	YB	<u>± 177</u>	2.655
	z_B		0
	$\mathbf{x_T}$	947	14.205
	$\mathbf{Y_T}$	<u>+ 167</u> 400	6.000
	ራጥ	400	

MODEL COMPONENT: BODY - (B26)	·	
GENERAL DESCRIPTION: Orbiter Fuselage Confi	guration 140 A/B	
NOTE: B26 identical to B24 except undersid	e of fuselage ref	aired to
accept W ₁₁₆ .		
Model Scale = 0.015		
DRAWING NUMBER: VL70-000193 VL70-000140A		
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length (Body Fwd Sta $X_0 = 235$) - in.	1293.3	19.400
Max. Width (at $X_0 = 1520$) - in.	262.0	_3.93
Max. Depth (at $X_0 = 1464$) - in.	250.0	3.75
Fineness Ratio	0.26357	0_26357
Area - ft ²		
Max. Cross-Sectional	340.88462	0.07670
Planform		
Wetted		•
Base		

MODEL DIMENSIONAL DATA

MODEL COMPONENT : Canopy (Cq)		
GENERAL DESCRIPTION : Configurati	ion 140 A/B Orbite	r Fuselage
Model Scale = 0.015	Model Dra	awing No. SS-AOOla
DRAWING NUMBER: VL70-000140A VL70-000143A		
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (X ₀ =434.643 to 670)	235.357	3.530
Max Width (@ X ₀ =513.127)	152.412	2.286
Max Depth (@ X ₀ =485.0)	25.000	0.375
Fineness Ratio		
. Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		,

TABLE III. - Continued.

MODEL COMPONENT: ELEVON - (E26)	•	
GENERAL DESCRIPTION: Configuration 140 A/B	Orbiter Elevon	·
NOTE: VL70-000 200 data for (1) of (2) s	ides. Identical 1	o E ₂₅ except
airfoil thickness	·	
Model Scale = 0.015	Model Drawi	ngs No. SS-A00148
DRAWING NUMBER: VL70-000140 B	٠.	
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	223.5814	0.0503
Span (equivalent)	368.34	5.525
Inb'd equivalent chord	119.623	1.794
Outb'd equivalent chord	55.1922	0.828
Ratio movable surface chord/ total surface chord		•
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees	••	·
: Leading Edge	0.00	··· 0.00
Tailing Edge		-10.056
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)	<u>851.150</u> 2	0.00287

TABLE III. - Continued.

MODEL COMPONENT: Pody Flat (F7)		
GENERAL DESCRIPTION: Configuration 140 NOTE: Body flap has variable centerline	deflection of +13.	75" end
-14.25° from null position. Hinge $Z_0 = 284.3$		ng No. SS-A00147
Nodel Scale = 0.015	1, 71.70-0001.45	
DIMENSION:	FULL SCALE	MODEL SCALE
Length $(X_0=1520 \text{ to } X_0=1613) - \text{IN}$. Max Width - IN.	93.000 262.600	1.395 3.930
Max Depth ($X_0 = 1520$) - IN.	23.000	_ 0.345
Fineness Ratio Area - Ft ²	Carried Company Control of Contro	
Max Cross-Sectional		
Planform •	_150_5250	0.0339
Wetted		
Base	41.84722	0.00941

TABLE III. - Continued.

MODEL COMPONENT Feed line FL1		
DESCRIPTION: LOX feed line between ET and	orbiter	
MODEL SCALE: 0.015		
DRAWING NO: VL78-000050	•	•
DIMENSIONS: - INCHES	FULL SCALE	MODEL SCALE
Cat: X _T	2063.5	30.953
YT	_70	1.053
x _o	1330.5	19.958
		1.053
Diameter	18.5	278

MODEL COMPONENT: Feed line FL2	·································	
DESCRIPTION: LH2 feed line between ET ar	nd orbiter	
MODEL SCALE: 0.015		
DRAWING NO.:		
DIENSIONS:		
E at X _T Y _T X _o Y _o	2063.5 -70 1330.5	MODEL SCALE 30.953 -1.053 19.958 -1.053
Diameter	_ 18.5	270

MODEL COMPONENT: Fairing FRi		
DESCRIPTION: Umbilical door fairing	g around LOX and LH2 feedling	es between
orbiter and ET. Leading edge of f	airing attaches to bottom of	orbiter.
MODEL SCALE: 0.015		
DRAWING NO.: VL78-000050	***************************************	
DIMENSIONS:		
	FULL SCALE	MODEL SCALE
Leading edge at Xo	1214	18,210
Length	154	2.310
Width	226	3,390

MODEL COMPONENT : OMS Pod (M7)		
GENERAL DESCRIPTION :Configuration :	L40 A/B Orbiter	OMS-Pod
Model Scals = 0.015	Model Drawing	No. 55-A00147
VL70-000140A VL70-000145		•
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length(OMS Fwd Sta Xo=1233.0) -I	N. 327.000	4.905
Max Width (@ X ₀ =1450.0) - IN.	94.5	1.418
Max Depth (@ X ₀ =1493.0) - IN.	109.000	1.635
Fineness Ratio		•
. Area		
Max. Cross—Sectional		
Planform		
Wetted		•
Base		• · · · · · · · · · · · · · · · · · · ·

MODEL COMPONENT: <u>NOZZLES - N 41</u>		
GENERAL DESCRIPTION: Configuration 4 BSRM Nozzle	8	
MODEL SCALE = 7.015		
VL72-000088E DRAWING NO. VL77-000036A		
DIMENSIONS	FULL SCALE	MODEL SCALE
Mach No.	•	•
Length ~ in.		
Girbal Point to Exit Plane	141.3	2.120
Threat to Exit Plane		**********
Diameter~in		
Exit	. 141.3	2.120
Throat		
Inlet		
Area ~ st ² .		
Exit	108.89 95	0.0245
Throat		
Gimbal Point (station)∼in.		
x	1796.15	26.942
Y	+243.0	±3.645
. Z	400.0	6.0
Null Position~deg.	00	00
Pitch	00	00
Yew	00	0.
FS of Nozzle Exit Plane (XT) IN.	2484	37.260

7

MODEL COMPONENT: NOZZLES - (N 72)		
GENERAL DESCRIPTION: Configuration 140 A/B Or	biter OMS Nozzle	
The pitch null was mounted to model at 30° but	t it should have been 150	49 according
to the lines drawing VL70-000140A.		
MODEL SCALE = 0.015	Model Draw	ing No. SS-A00147
DRAWING NO. VL70-000140A		
dimensions	FULL SCALE	MODEL SCALE
Mach No.		•
Length ~ in.	, •	
Gimbal Point to Exit Plane	-	
Throat to Exit Plane		
Diameter~in.	·	
Exit	-	
Throat	· 	
Inlot		
Area~ft².		
Exit		
Throat	Contract of the Contract of th	
Gimbal Point (station)~in.		
x .	1510.0	22.77
T	± 88.0	1.32
2	492.0	7.38
Null Position~deg.	30°	30°
Pitch		
Yaw *	12° 17'	12° 17'

top of each SRB	
	•
FULL SCALE	MODEL SCALE
467	7.001
0	<u> </u>
1820	27.30
_3	_,045
6	.090
72	
	FULL SCALE 467 0 1820 3 6

MODEL COMPONENT: SRB Protuberance	PS ₂	
DESCRIPTION: SRB/ET attach ring		
MODEL SCALE: 0.015		
DRAWING NO.: <u>VL77-0/30036A</u>		
DIMENSIONS: (Data for 1 of 2)		
	FULL SCALE	MODEL SCALE
C at XB	1515	22.725
Width	10	15
Voi cht	10	.15

MODEL COMPONENT: SRB Protuberance PS3		
DESCRIPTION: Separation rocket fairing on e	each SRB nozzle sh	roud located
30° inboard from top centerline.		
MODEL SCALE: 0.015		
DRAWING NO.: <u>VL77-000036A</u>		•
DIMENSIONS: (Data for 1 of 2)		
	FULL SCALE	MODEL SCALE
Leading edge at XB	1796	26.940
Trailing edge at XB	1889	28.335
Radial location is 30° inboard from top	centerline.	

MODEL COMPON	ENT: ET Protuberance	Pr	
DESCRIPTION:	LOX Vent Line Fairing on	Tank T12 Nose	
MODEL SCALE:	.015		
DRAWING NO	VL78-000031A		
		FULL SCALE	MODEL SCALE
DIMENSIONS:	Leading edge at XT	321	4.815
	YŢ	0 .	0
	M 29.1	0.0	34 00 5
	Trailing edge at XT	947	14.205
	$\mathtt{Y}_{\mathbf{T}}$	70	1.053

MODEL COMPONENT: ET Protuberance PT2		
DESCRIPTION: LOX feed lines on vehicle 4 tank	secured to tank	by brackets
with 30-inch spacing (total of 22 brackets)		
MODEL SCALE: 0.015		
DRAWING NO. VL78-000031A		
	FULL SCALE	MODEL SCALE
DIMENSIONS: Leading edge at XT	947	14.205
$\mathbf{Y_T}$		1.053
Trailing edge at XT	1330	19.950
$\mathbf{Y_T}$		1.053
Bracket spacing from $X_T = 997$		85
Centerline of LOX feedline located radially at \emptyset	23.5°	

MODEL COMPONENT: ET Protuberance PT3		
DESCRIPTION: LH2 vent line on vehicle 4 tank	k secured to tank	by brackets
with 30-Inch spacing (total of 22 brackets)		
MODEL SCALE: 0.015		
DRAWING NO. VL78-000031A		
	FULL SCALE	MODEL SCALE
DIMENSIONS: Leading edge at X _T	947	14.205
$\mathbf{Y_{T}}$	- 70	-1.053
Trailing edge at X _T	1330	19.950
$\mathbf{Y_{T}}$	- 70	-1.053
		-
Bracket spacing from $X_T = 997$	50	85
Centerline of LH feedline radially	located at Ø =	-34·5°

MODEL COMPONE	NT: Er Protuberance Pro		
DESCRIPTION:	LOX feed line fairing used	on nose of tank Tig	(tangent
ogive nose)			
MODEL SCALE:_	0.015		
DRAWING NO	NONE		
		FULL SCALE	MODEL SCALE
DIMENSIONS:	Leading edge at X _T	232	3.48
	$\mathbf{Y_{T}}$	_ 0	<u>0</u> ·
	Trailing edge at X _T	947	14.205
	•	70	1.053

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE - PT7		
GENERAL DESCRIPTION: LOX Vent line fai	lring on TANK - T18 nos	ė
MODEL SCALE: 0.015		
DRAWING MO.: NOME		
dimensions:	FULL SCALE	MODEL SCALE
Leading edge at $X_{\mathbf{T}}$		5.4
T T		0
Trailing edge at Xp	947	14.205
Y _{rri}	70	1.053

MODEL COMPONENT: RUDDER - R5		
GENERAL DESCRIPTION: Configuration 140 A	/B Orbiter Rudder	· · · · · · · · · · · · · · · · · · ·
·		
Model Scale = 0.015	Modelaw	ing No. SS-A0014
DRAWING NUMBER: VL70-000095,	VL70-000146A	
DIMENSIONS:	FULL-SCALE	MODEL SCALE
. Area - FT ²	106.38	0.0239
Span (equivalent) - IN.	201.0	3.015
Inb'd equivalent chord	91.585	1.374
Outb'd equivalent chord	50,833	0.762
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. cho.d	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees	•	•
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) (Product of Area and Mean Chord)	- FT ³	0.00178

TABLE III. - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCK	er moter - (s12)	
GENERAL DESCRIPTION: Configuration 3A per Rockwell Lines VI.77-000036A	, Data for (1) of (2) sides,
Model Scale = 0.015		
DRAWING NUMBER VL72-00008 VL77-00003		
DIMENSION:	FULL SCALE	MODEL SCALE
Length (Includes Nozzle) - IN.	1741.0	26.115
Mox Width (Tank Dia) - IN.	142.3	2.135
Max Depth (Aft Shroud) - IN.	192.0	2.880
Fineness Ratio	9.06771	9.06771
Area - FT ²		
Max Cross-Sectional	201.06193	0.0452
Planform ·	•	
Wetted	•	
Base .	-	
WP of BSRM Centerline (Z _T) - IN.	400	6.000
FS of BSRM Nose (XT) - IN.	743	11.145

MODEL COMPONENT: EXTERNAL TANK - (T12	<u> </u>	·
GENERAL DESCRIPTION: External Oxygen H	vdrogen Tank	•
NOTE: Identical to Tll with external fu	nel linus added	
Model Scale = 0.015.		
DRAWING NUMBER VL78-00003		
DIMENSION:	FULL SCALE	MODEL SCALE
Length - IN. (Nose @ $X_T = 309$)	1865	27.975
Max Width (Dia) - IN.	324	4.86
Max Depth	•	
Fineness Ratio	5.75617	- 5.75617
Area - FT ²	••	
Max Cross-Sectional	572.555	0.1288
Planform ·		
Wetted		•
Base	•	
WP of Tank Centerline (Zp) - IN.	400.0	6.000

TABLE III. - Continued.

MODEL COMPONENT : External Tank - T1	3						
GENERAL DESCRIPTION : External Oxygen	Hydrogen Tank.	·					
NOTE: Has same fuel lines and protuberances as T12. Has a 1208 in.							
Radius Tangent Ogive Nose.							
Model Scale = 0.015							
DRAWING NUMBER : SS-A-01167							
		•					
DIMENSIONS :	FULL SCALE	MODEL SCALE					
Length - IN. (Nose @ $X_T = 220$)	1954.0	29.310					
Max Width (Dia.) - IN.	324	4.86					
Max Depth							
Finenėss Ratio	6.031	6.031					
Area ft.2							
Max. Cross-Sectional	572.555	0.1288					
Planform							
Wetted							
Base							
WP of Tank Centerline (Z_T) , IN.	400.0	6.000					

MODEL COMPONENT : EXTERNAL TANK - T	า่8	·	
GENERAL DESCRIPTION : External oxyg	en-hydrogen tank	which is	
similar to T12 except that the nose an	d tangency point	have been	
shortened by 39 inches full scale.			
MODEL SCALE: 0.015			
DRAWING NUMBER: _SS-A01167			
•		•	
DIMENSIONS:	FULL SCALE	MODEL SCALE	
Length \sim IN. (Nose @ XT 348)	1826.0	27.390	
Max Width ~ IN.	324.0	4.860	
Max Depth			
Fineness Ratio	5.636	5.636	
. Area ~ ft ²			
Max. Cross-Sectional	572.555	0.1288	
. Planform			
Wetted			
Base			
WP of ET centerline $(Z_T) \sim In$.	400.0	6.000	

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V 8			
GENERAL DESCRIPTION: Configuration	ion 140 A/B Orbite	r Vertical Tail	
NOIT: Similar to V5 with radius	on TE upper corne	er and LE lower c	orner
where vertical meets fuse	elage.		
Model Scale = 0.015		Model Drawing	No. 35-4001/ ₁ 9
DRAWING NUMBER:	VL70-000140A VL70-000146A		
DIMENSIONS:		FULL-SCALE	MODEL SCALE
TOTAL DATA			
Area (Theo) Ft ² Planform	·	413.253	0.09298
Span (Theo) In Aspect Ratio	•	315.720 1.675	4.73580 1.675
Rate of Taper Taper Ratio	•	0.507 0.40399	0.507
Sweep Back Angles, degree Leading Edge)\$ ``	45.00	45.00
Trailing Edge 0.25 Element Line		25.947 41.130	25.947 41.130
Chords: Root (Theo) WP Tip (Theo) WP MAC		268.500 108.470 199.80756	4.02750 1.62705 2.99711
Fus. Sta. of .25 MAC W. P. of .25 MAC B. L. of .25 MAC		1463.50 635.522 0.00	21.95250 9.53283 0.00
Airfoil Section Leading Wedge Angle Trailing Wedge Angle Leading Edge Radius Yoid Area Blanketed Area	Deg Deg	10.00 14.920 2.00 13.17 0.00	10.00 14.920 0.0300 0.00296

MODEL COMPONENT: WING- (Walk)	nucu.	
GENERAL DESCRIPTION: Configuration 140 A/B Orbite	r Wing	······································
NOTE: Identical to W114 except airfoil thickness.	Dihedral angl	e is along
trailing edge of wing.		
Model Scale = 0.015		ring No. SS-A0014
TEST NO.	DWG. NO. VI.70	-000 200
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA	•	
Area (Theo.) Ft ² Planform	2690.00	0.6053
Span (Theo In. Aspect Ratio	936,6816 2.265	14.050 2.265
Rate of Taper	1.177	<u> </u>
Taper Ratio	0,200	0.200
Dihedral Angle, degrees(at X ₀ =1506.623,Y ₀ = Incidence Angle, degrees 105, Z ₀ = 282.75)	3.500 0.500	3.500
Aerodynamic Twist, degrees	+3.000	<u> </u>
Sweep Back Angles, degrees		
Leading Edge Trailing Edge	45.00 -10.056	45.00 -10.056
0.25 Element Line	35.209	35.209
Chords:		***************************************
Root (Theo) B.P.O.O.	689.2429	10.339
Tip, (Theo) B.P. MAC	137.8486 474.8117	2.068 7.222
Fus. Sta. of .25 MAC	1126.721	17.051
. W.P. c25 MAC	291.00	4.355
B.L. of .25 MAC	187.33491	2.810
Area (Theo) Ft2	1812.2205	0.408
Span, (Theo) In. BP108	736.6816	11.050
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords Root BP108	E80 /020	8.559
Tip 1.00 b	570.6230 137.8512	2.05
<u>ን</u>		5.314
MAC - Fus. Sta. of .25 MAC	354,2376 1164,237	17.464
W.P. of .25 MAC	292.00	4.380
B.L. of .25 MAC	239.67786	3.595
Airfpil Section (Rockwell Mod NASA)	•	
XXXX-64 Root b = 0.425	0.113	0.113
7 Tip b = 1.00	0.12	0.12
7		
Data for (1) of (2) Sides		•
Leading Edge Cuff 2 Planform Area Ft ²	79.13380	0.0266
Leading Edge Intersects Fus M. L. 3 Sta	505.0	7.575
Leading Edge Intersects Wing @ Sta	1084.5	15.053
49		· · · · ·

TABLE III. - Concluded.

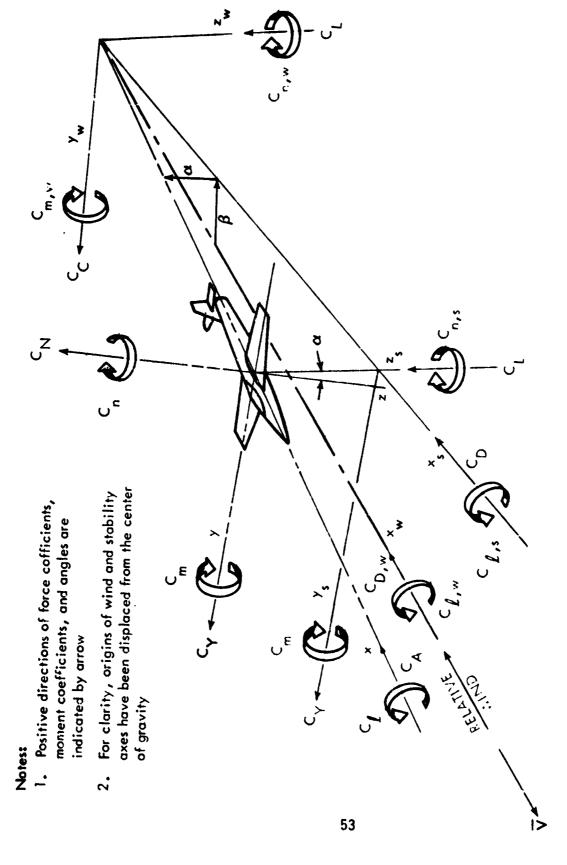
MODEL COMPONENT: BOUNDARY TRANSITION STRIP - X25 GENERAL DESCRIPTION: Carborundum Frit located on SRB, ET, and orbiter noses and orbiter wing and vertical stabilizer surfaces. Nominal grit size on nose, wing (except glove). and vertical tail surfaces No. 120 Diameter - In. 0.0054 Nominal grit size on orbiter glove No. 100 0.0065 Diameter, inches Location - In. Aft of nose leading edge, streamwise 1.2 Aft of wing, vertical tail, and glove, inches perpendicular to leading edge 0.5

Table IV. Pressure Weighting Factors

	Location of						
RUN	BALANCE	<u>wfl</u>	WF2	WF3	WF4	WF5	wfó
1	ORB.	1	ı	1	1	1	1
123456789011214156789012234567890123345678991244445							
45	ORB	1	1	1	1	1	l

	LOCATION OF						
RUN	BALANCE	WFl	MES.	WF3	WF4	WF5	WF6
46 47 48 49 50 51 52 53	ORB	1	1	1	0	0	1
54 55	\psi	y	*	¥	y	†	, t
56 57	ORB TANK	1 1	0	1	0	0	0
478 49 50 152 33 4 55 6 57 8 990 162 33 4 56 67 8 99 172 73 4 57 67 77 77 77 77 77 77 77 79 79					01		
76 77	TANK ORB	1	0 1	1	1 1*	1	0 1
78 79 80 81 82 83 84 85 86	ORB	1	1	•	1*	1	\

*USE c_{p_5} VALUE FOR c_{p_4}



a. Stability and body axis systems

Figure 1. - Axis systems.

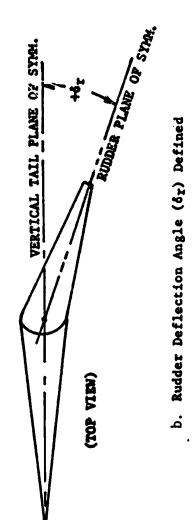
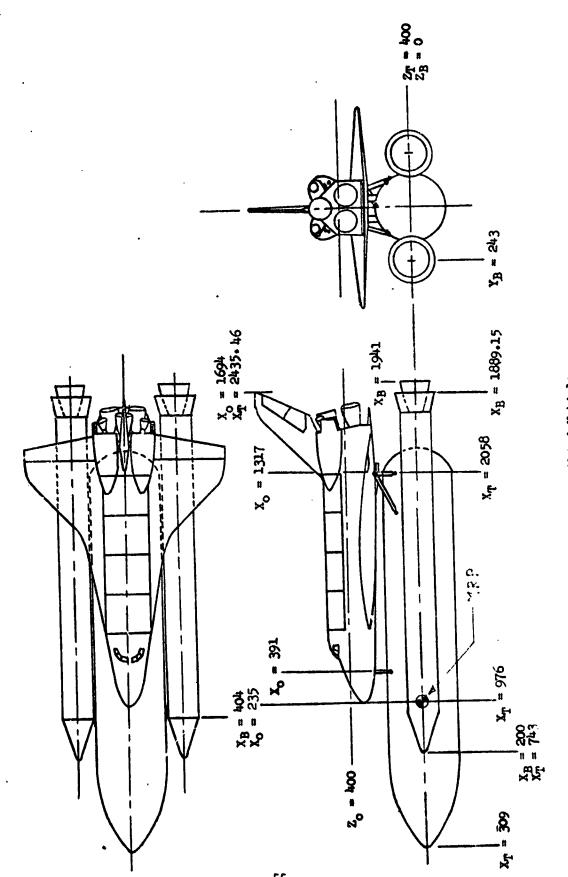


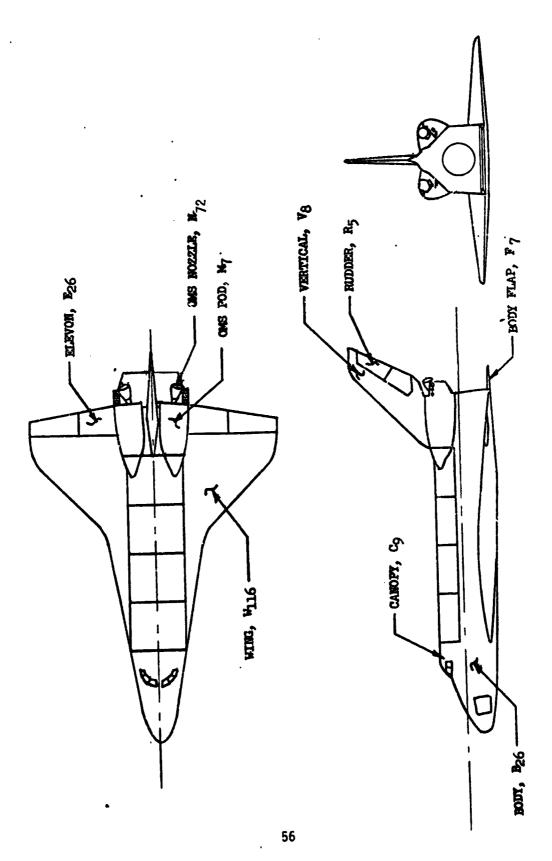
Figure 1. - Concluded.



a. Mated Vehicle

Figure 2. - Model sketches.

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b. Orbiter Three View

Figure 2. - Continued.

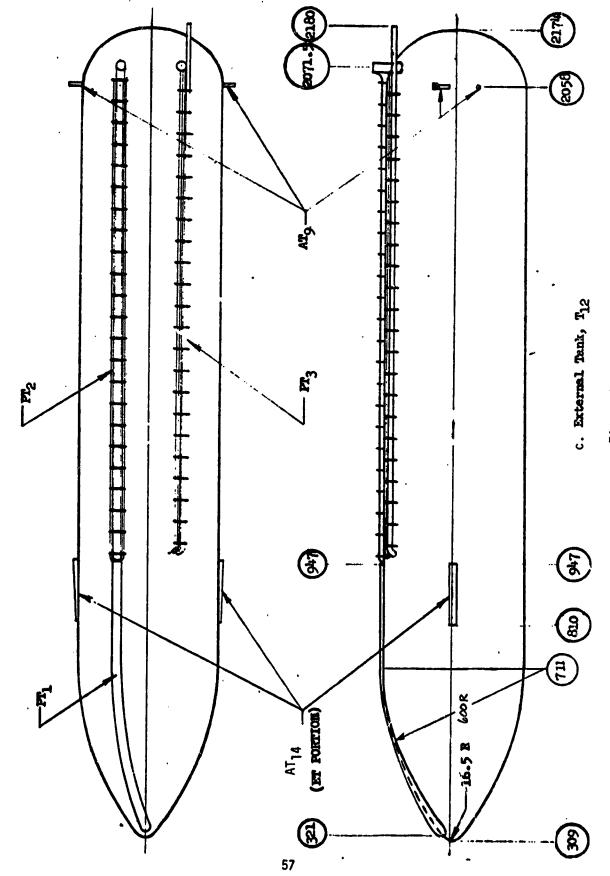
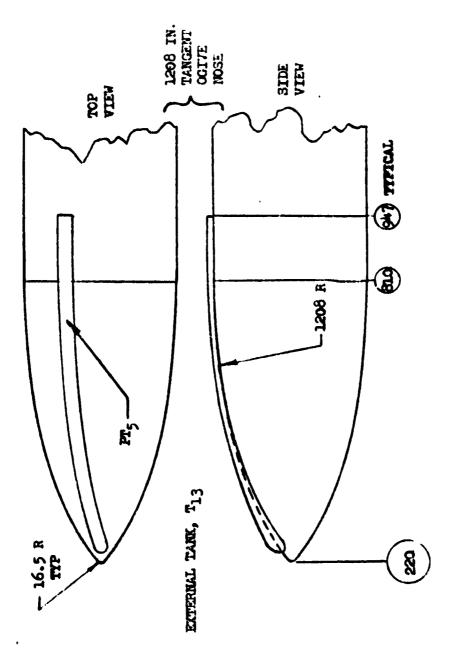
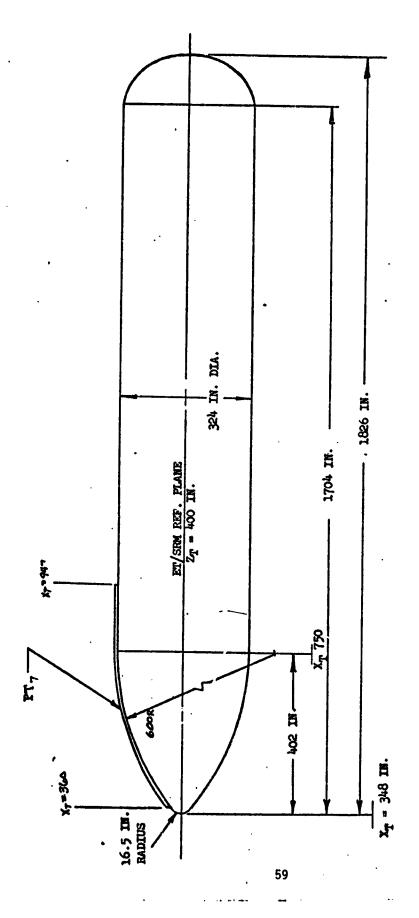


Figure 2. - Continued.



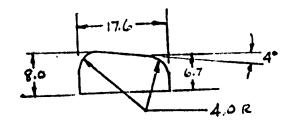
d. External tank nose, T₁₃

Figure 2. - Continued.

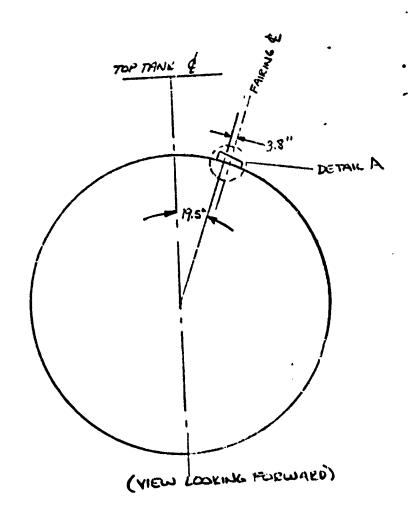


e. External Tank T18

Figure 2. - Continued.

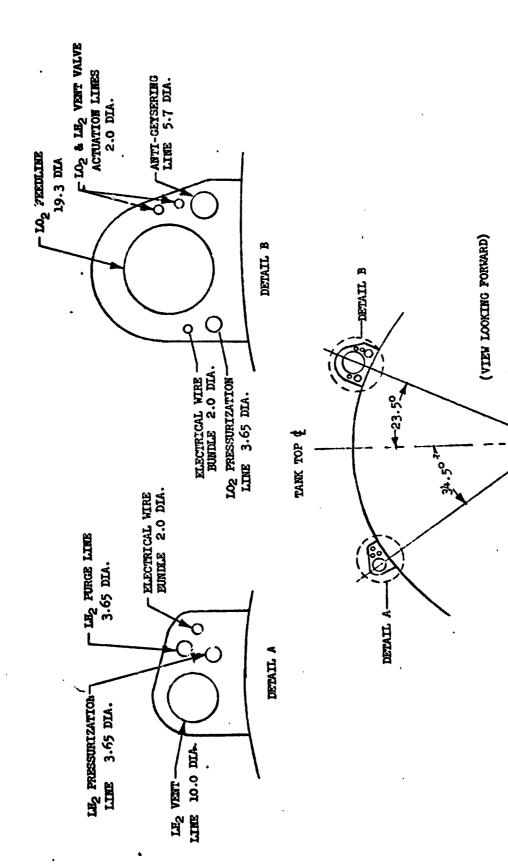


DETAIL A



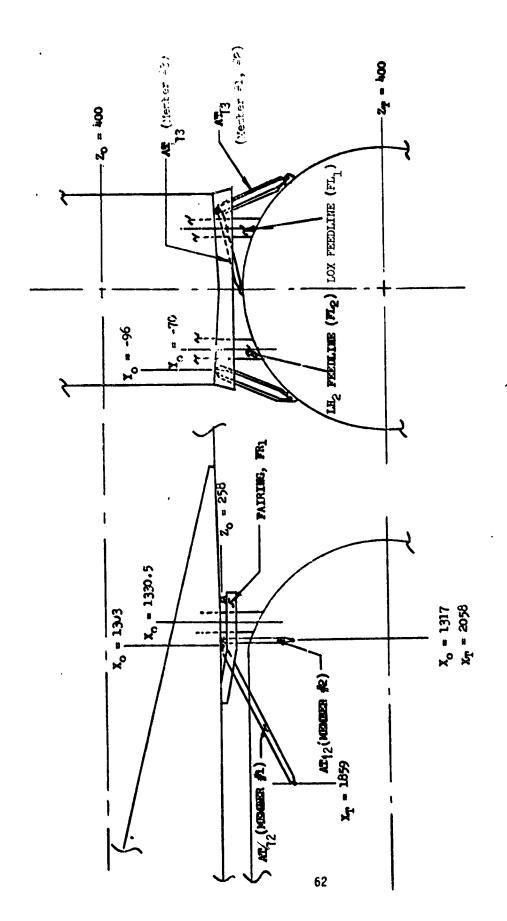
f. LOX Ventline Fairing (Pr. Pr3, Pr, Pr,

Figure 2. - Continued.



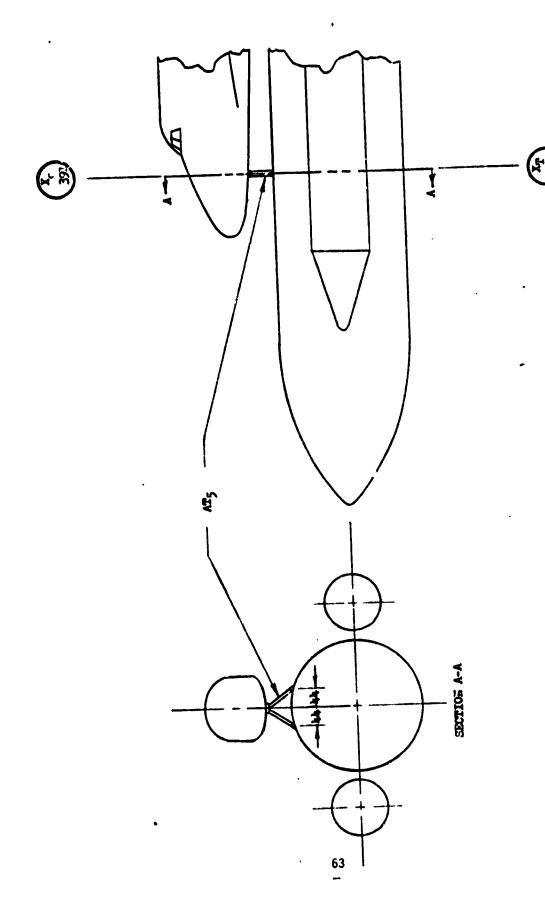
ET Protuberance Brackets for PT2 and PT3
 Figure 2. - Continued.

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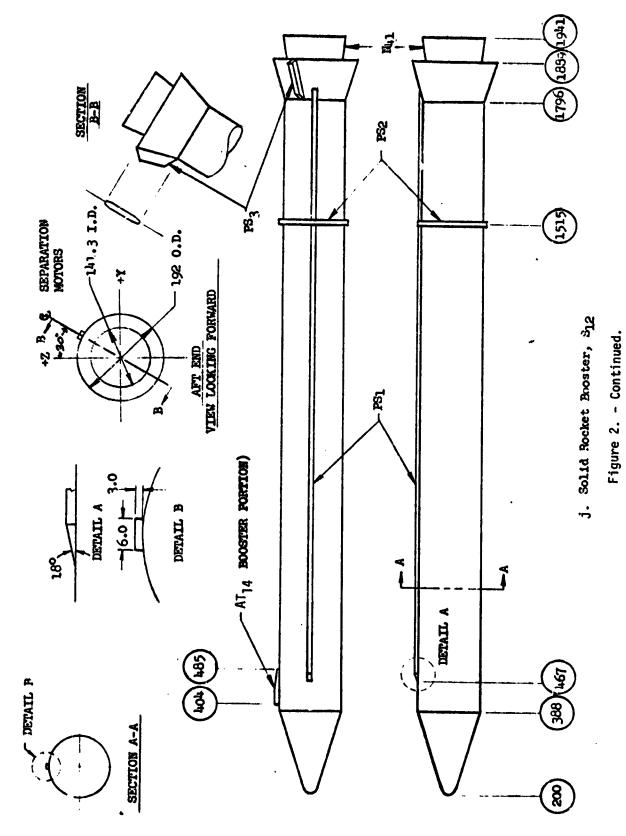
h. Aft Orbiter/ET Attach Hardware

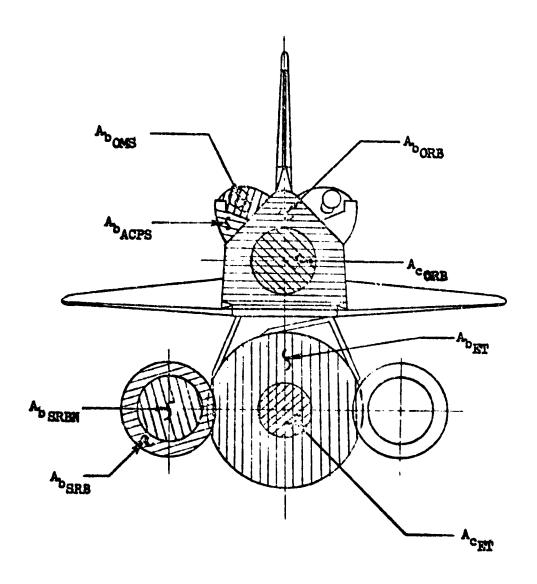
Figure 2. - Continued.



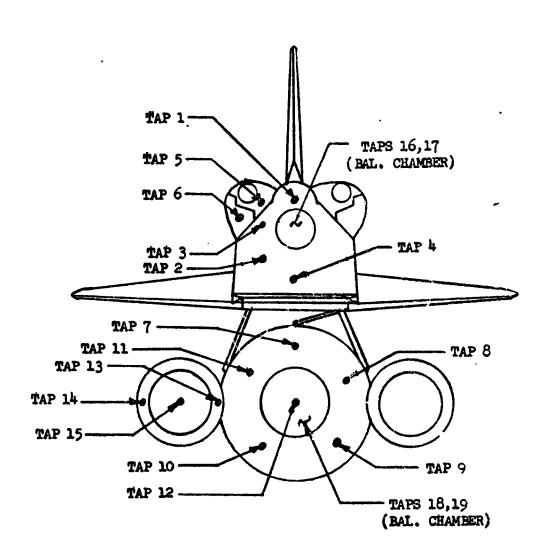
i. Front Orbiter/Em Attach Structure, Amg

Figure 2. - Continued.



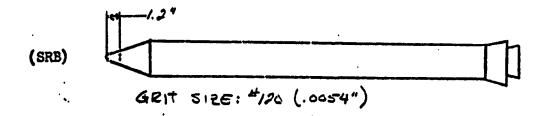


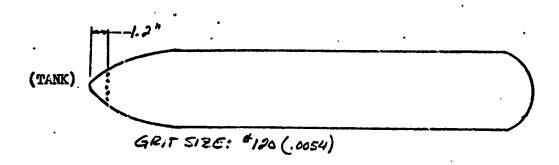
k. Definition of Model Base and Cavity Areas Figure 2. - Continued.

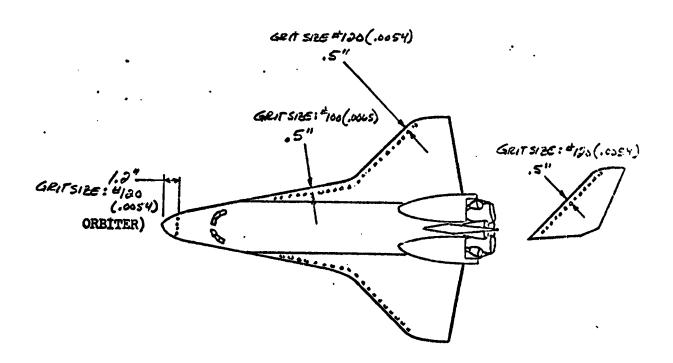


1. Base Pressure Tap Locations

Figure 2. - Continued.



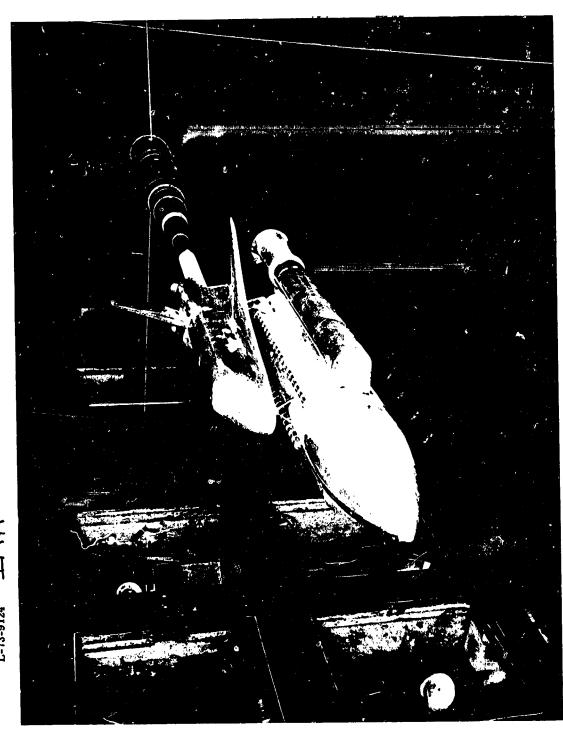




m. Transition Strip Locations X₂₅ Figure 2. - Continued



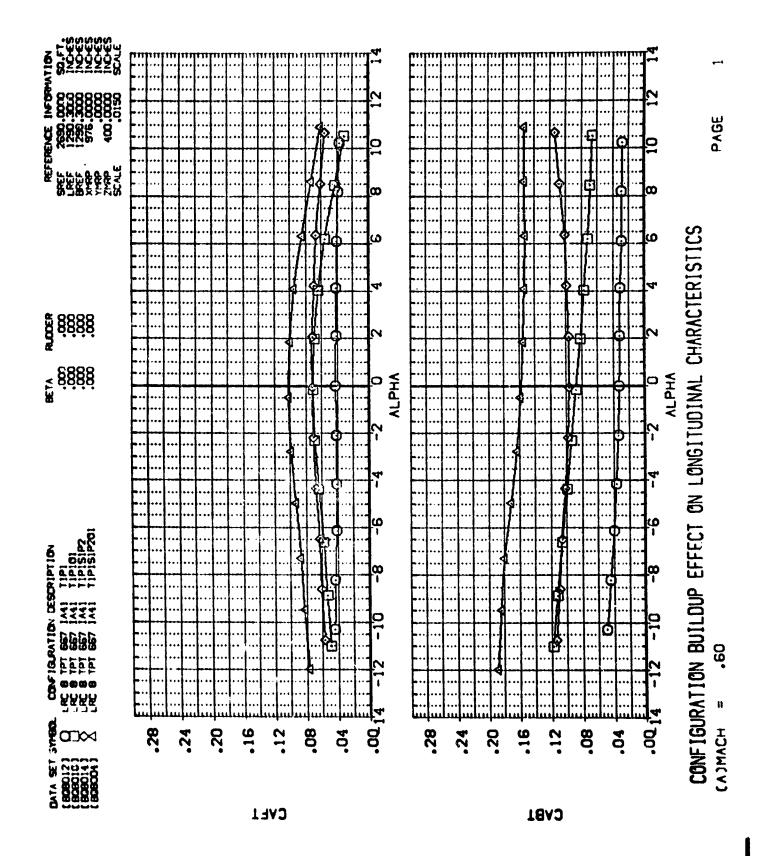
a. Rear Three Quarter View Figure 3. - Model Installation.

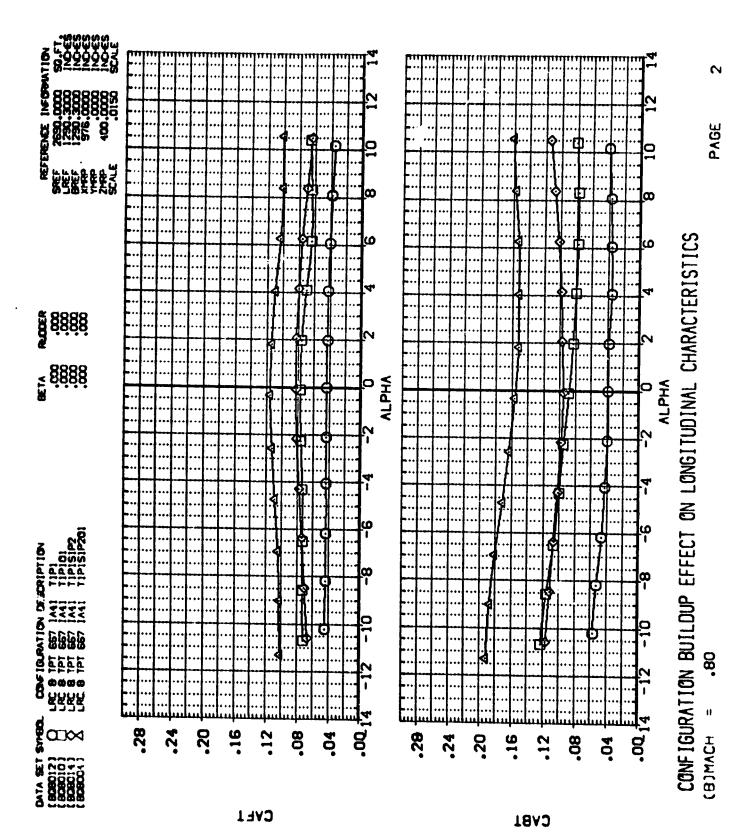


b. Front Three-Quarter View Figure 3. - Continued.

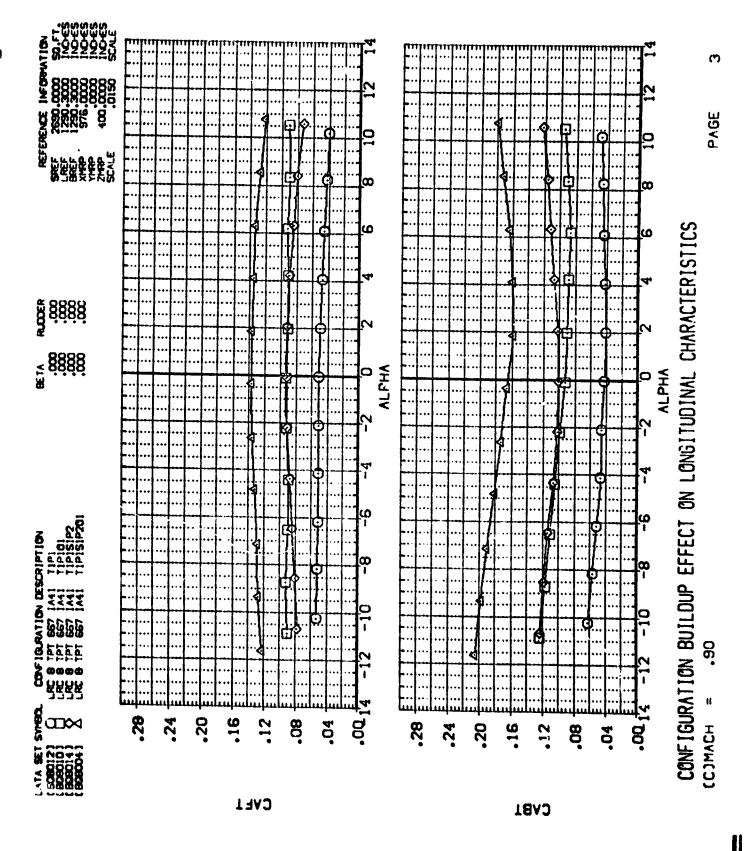
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DATA FIGURES

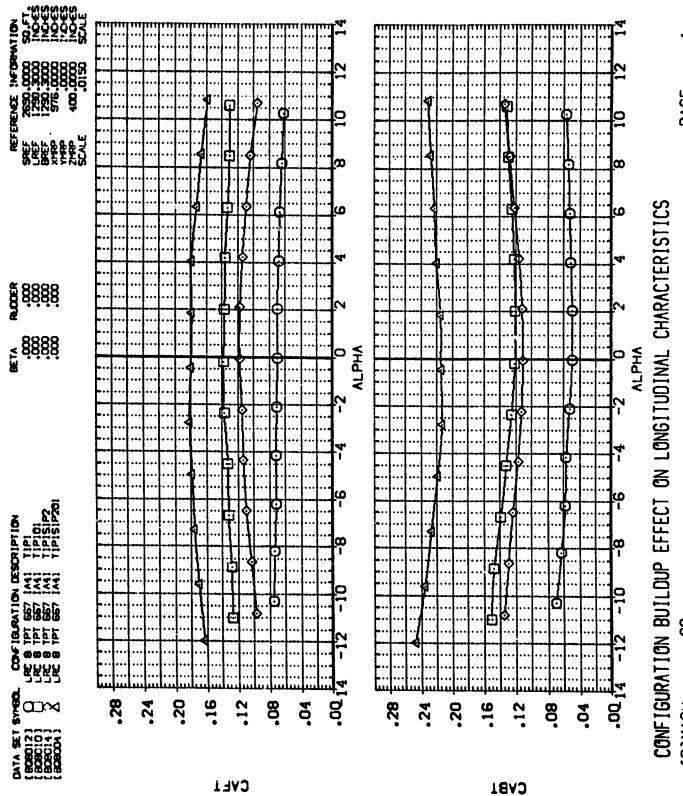






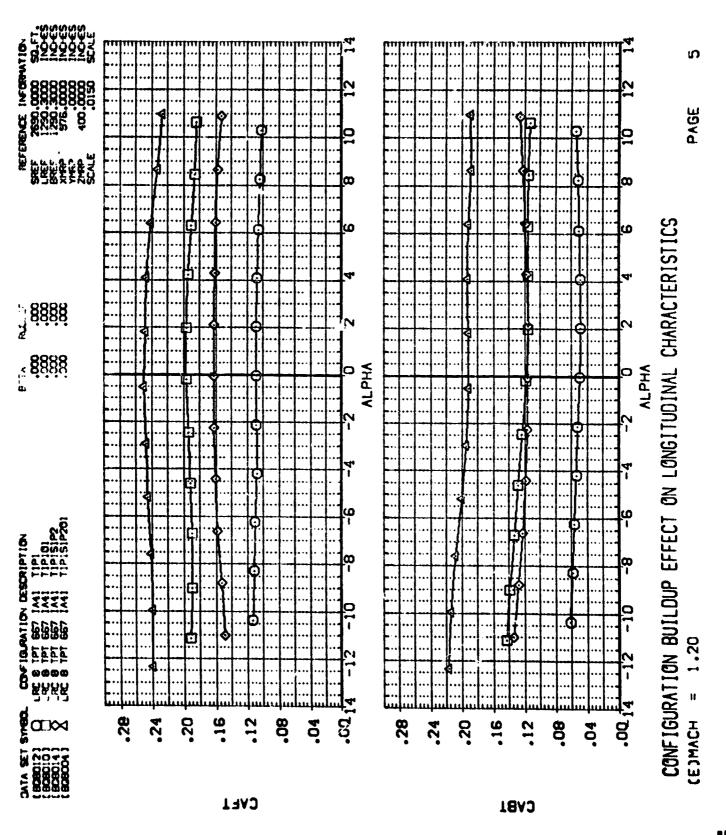


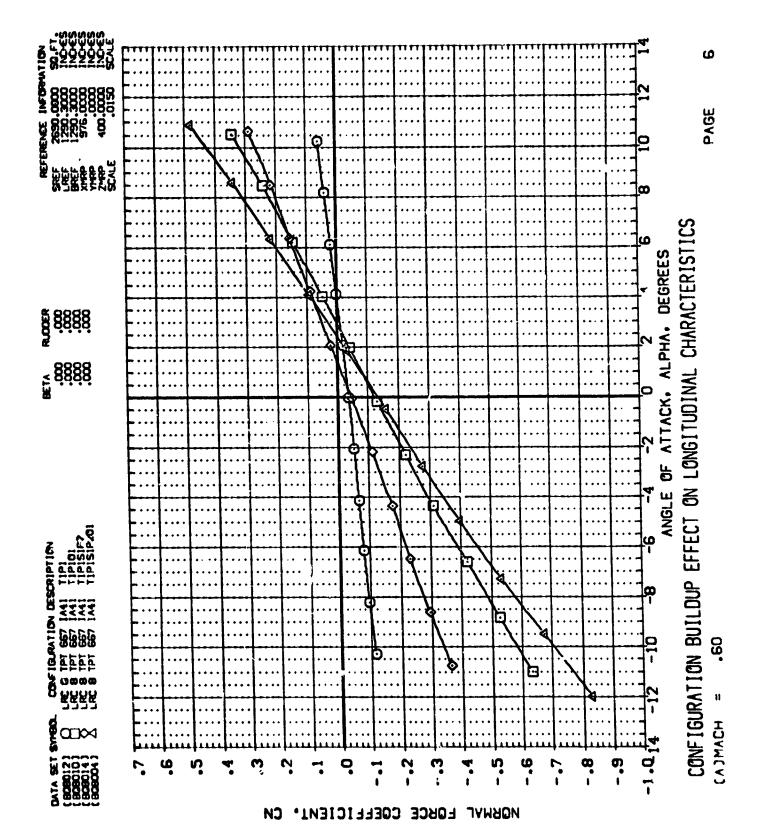
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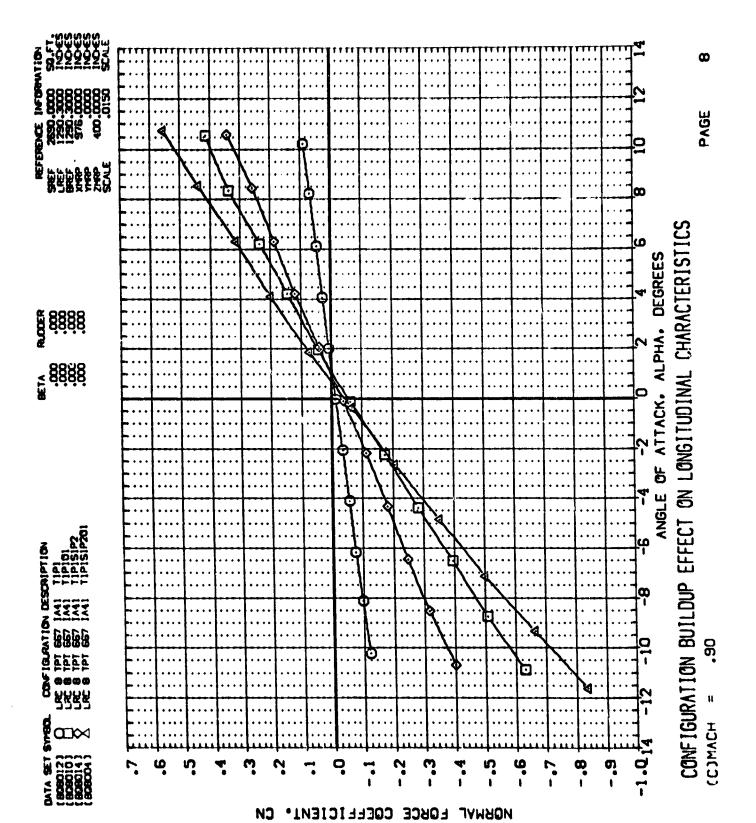


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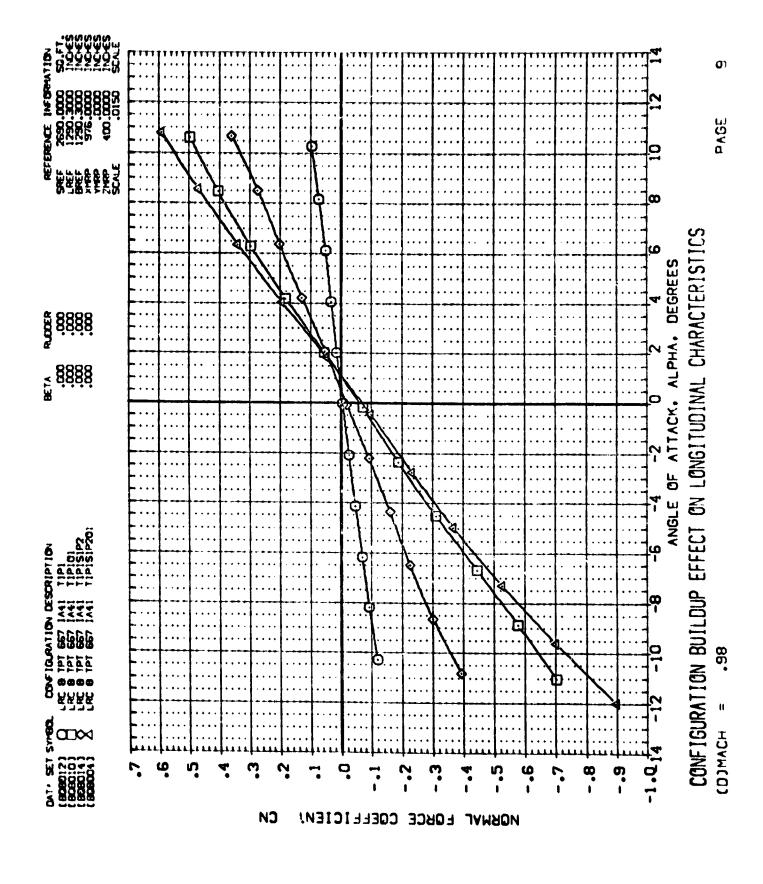






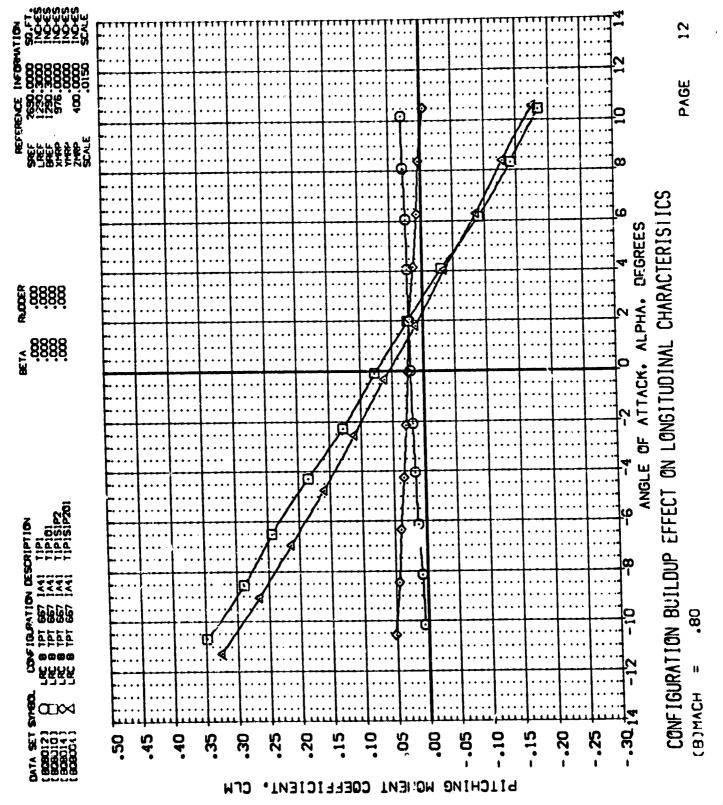




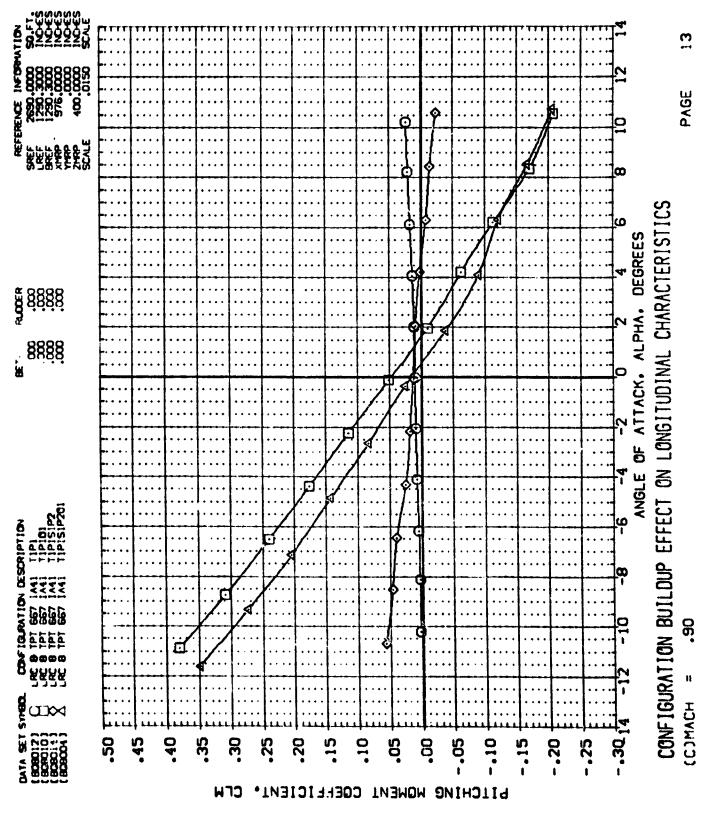


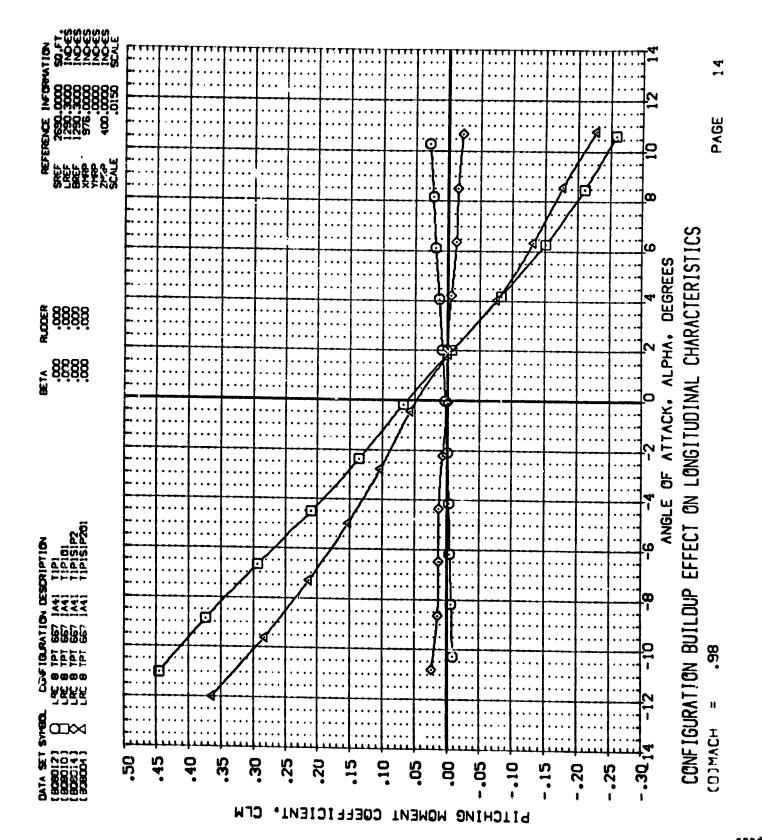
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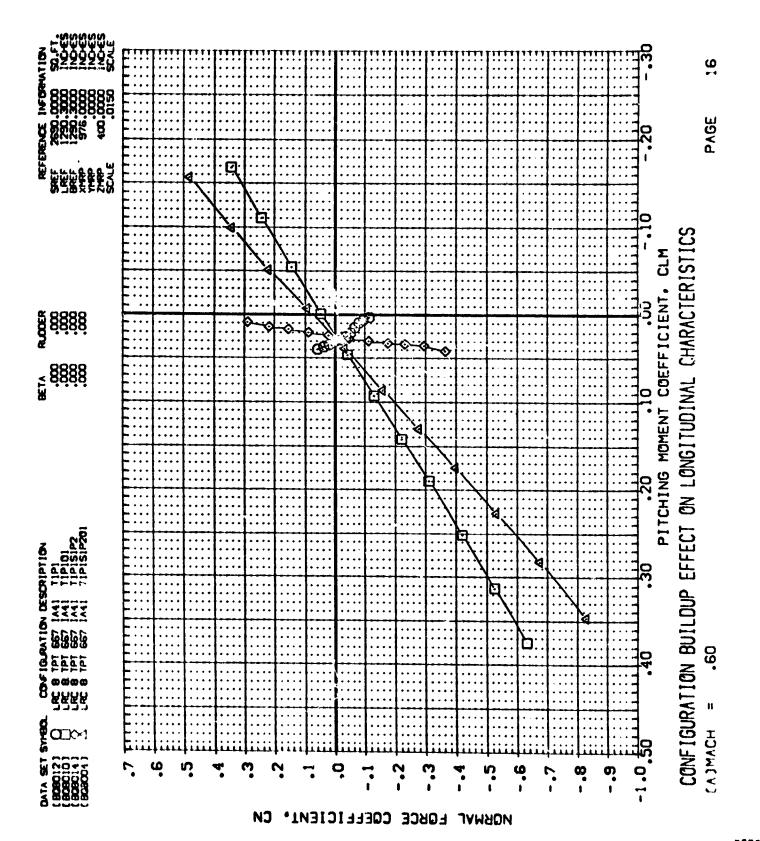




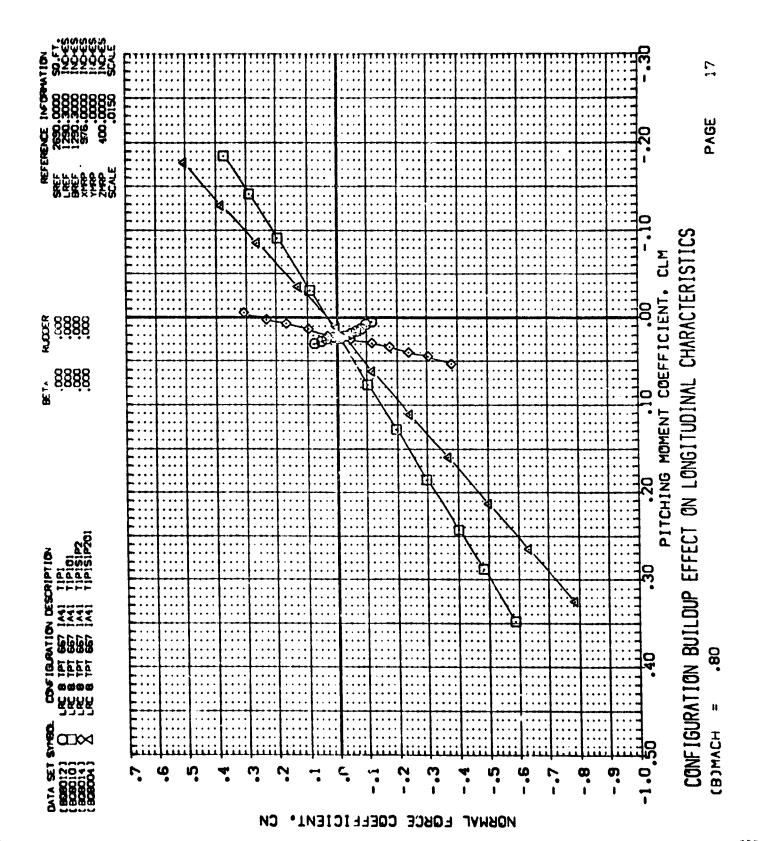




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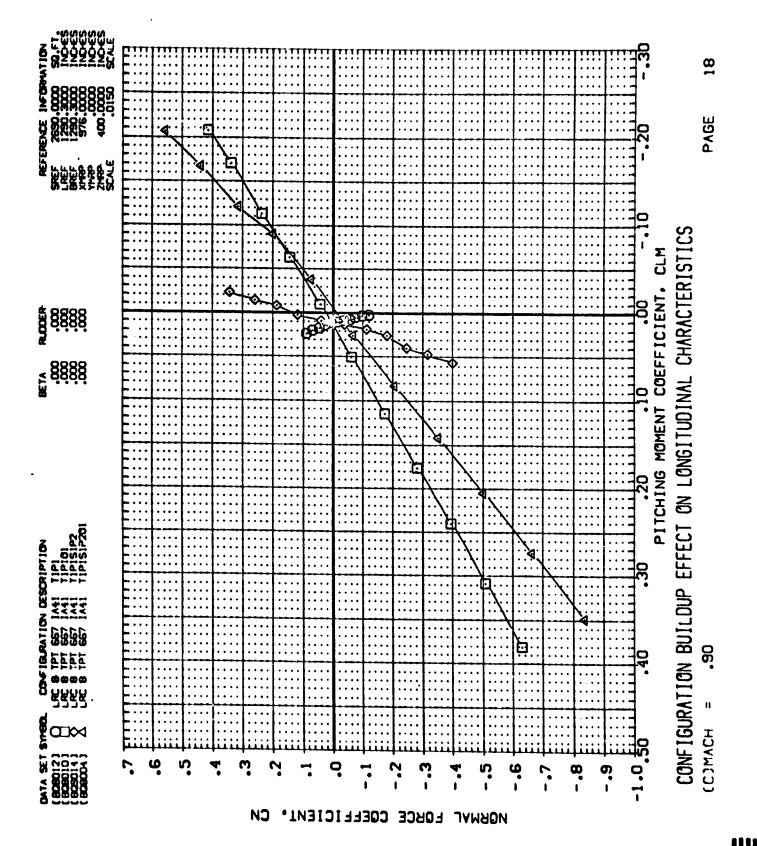




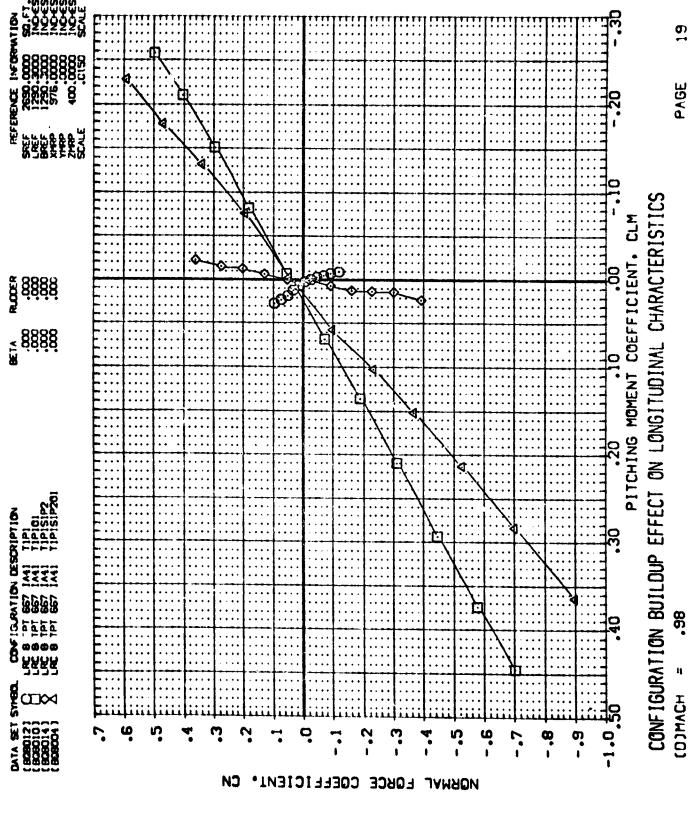
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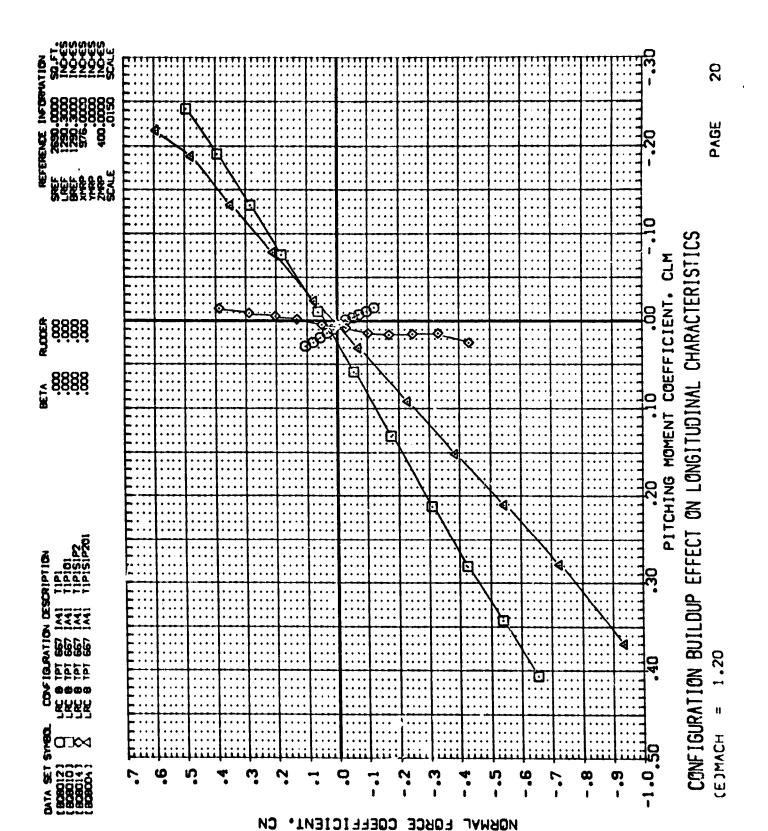
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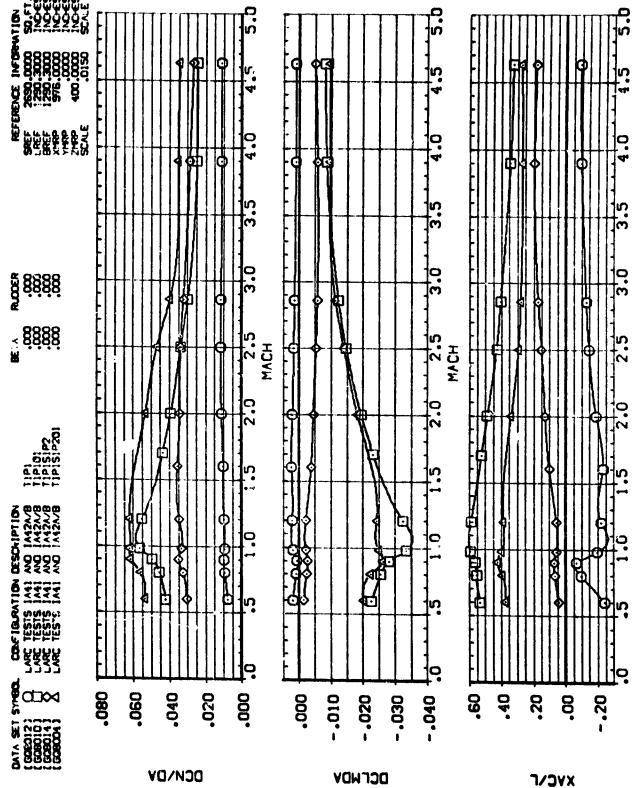






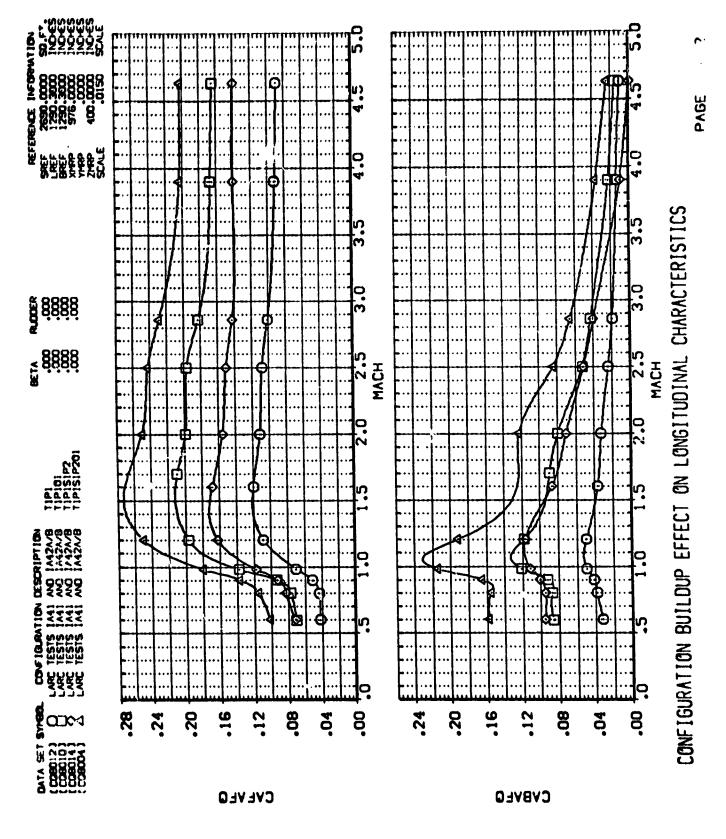


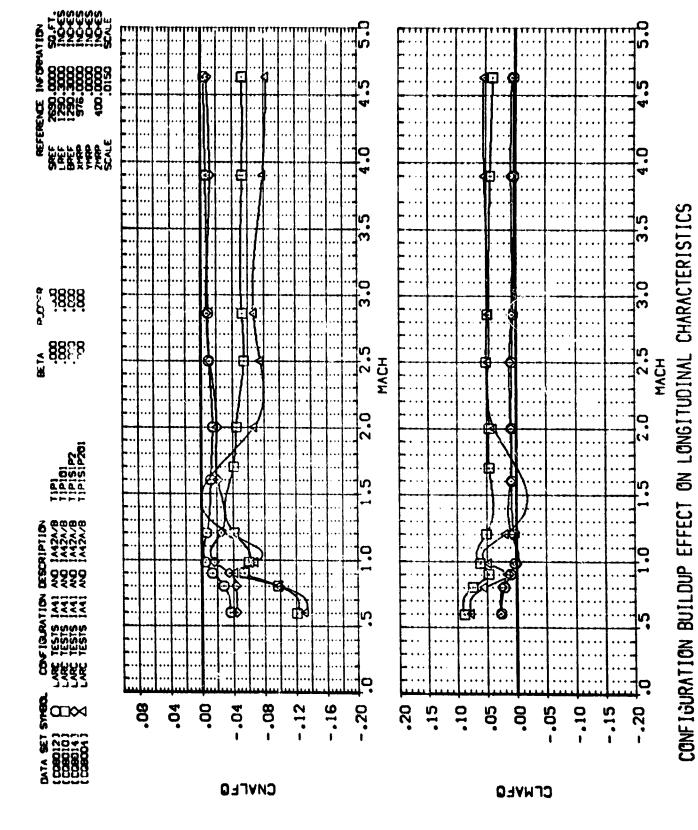


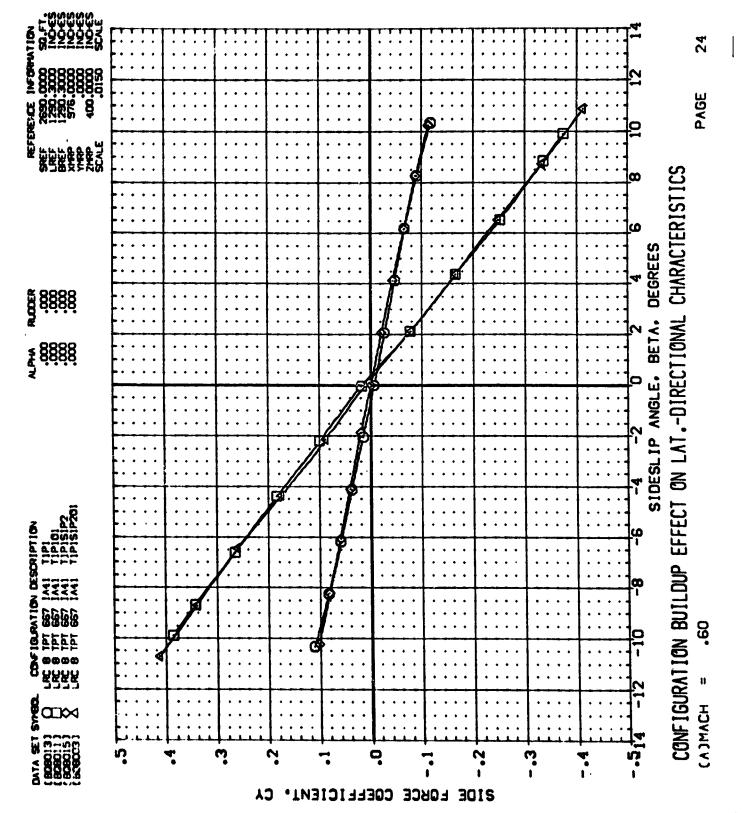


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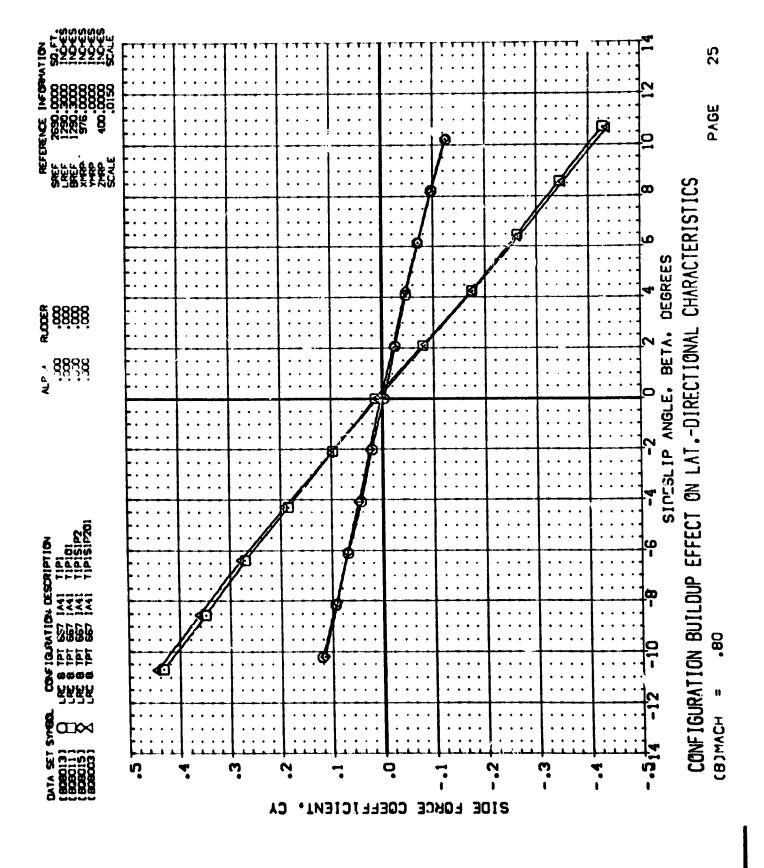
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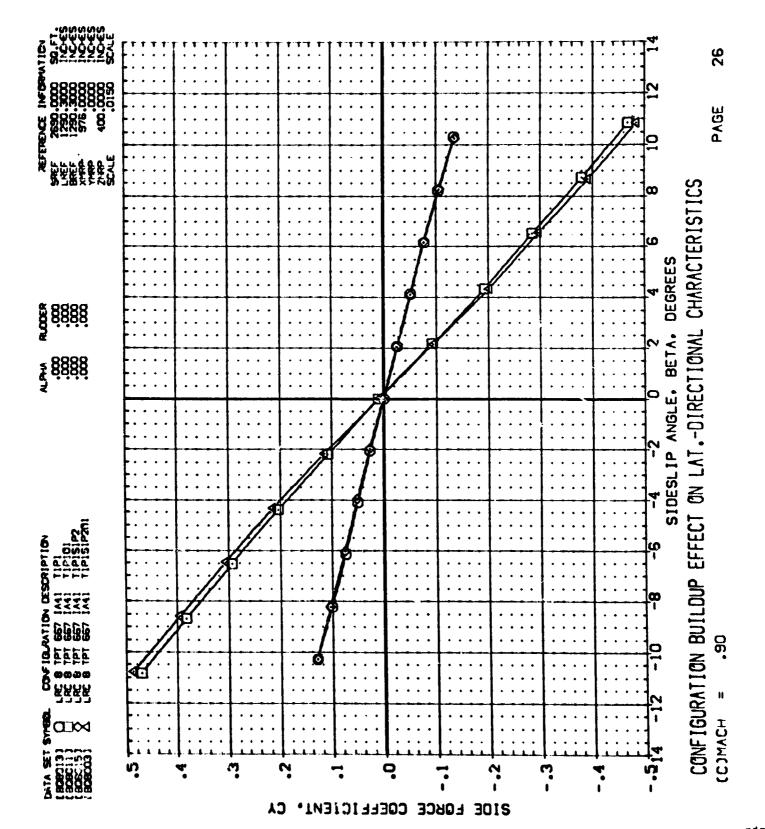




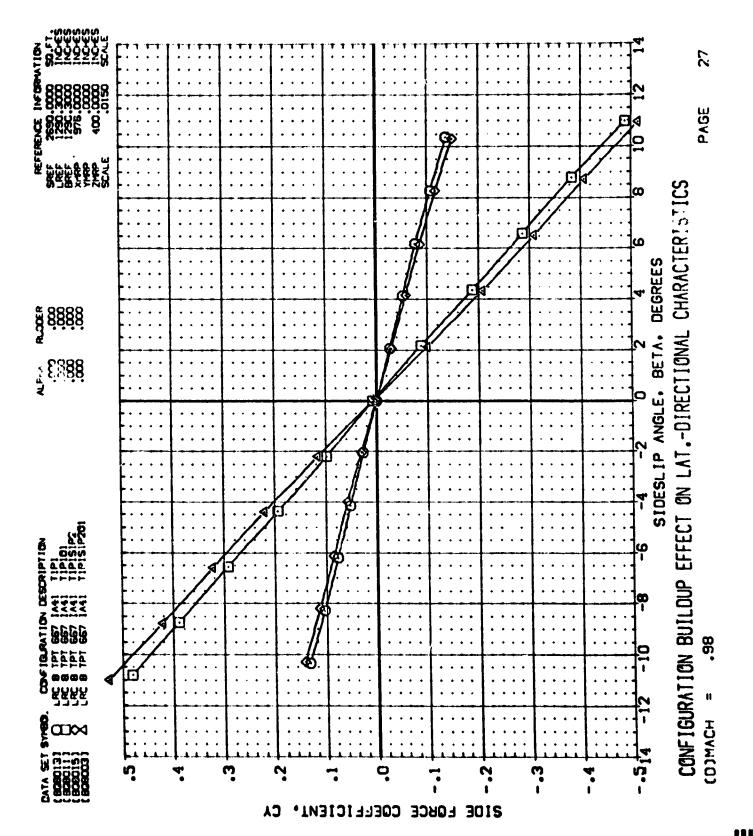


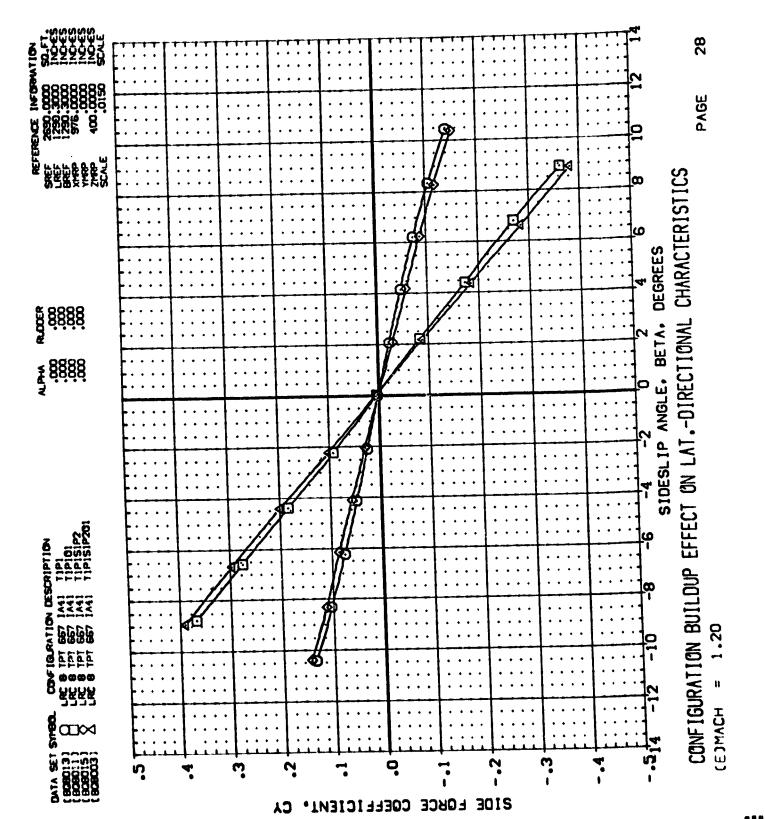




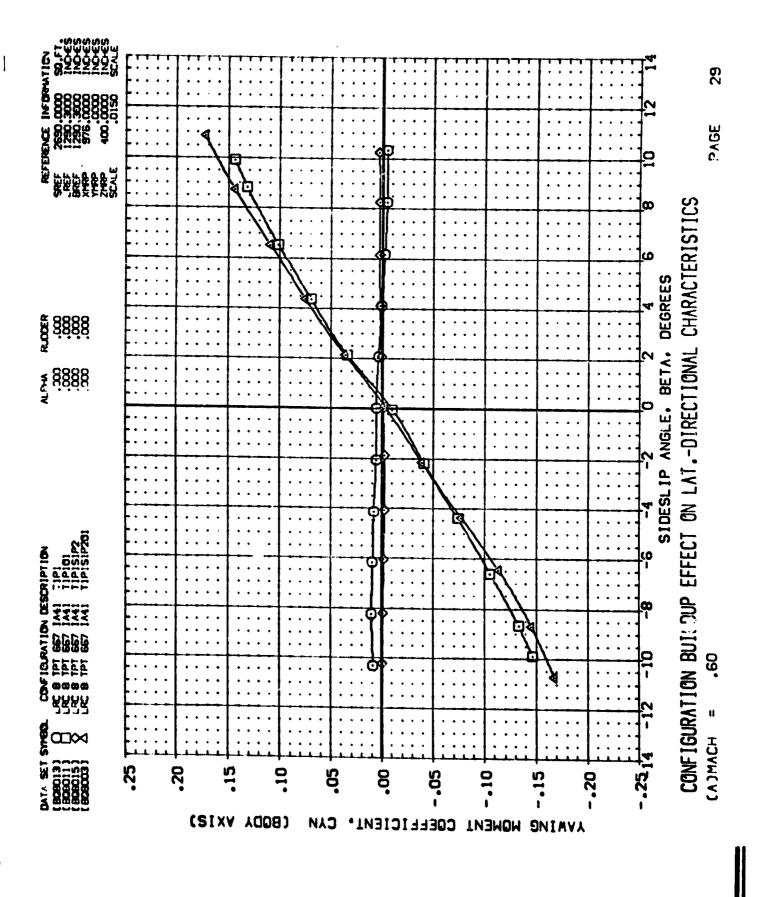


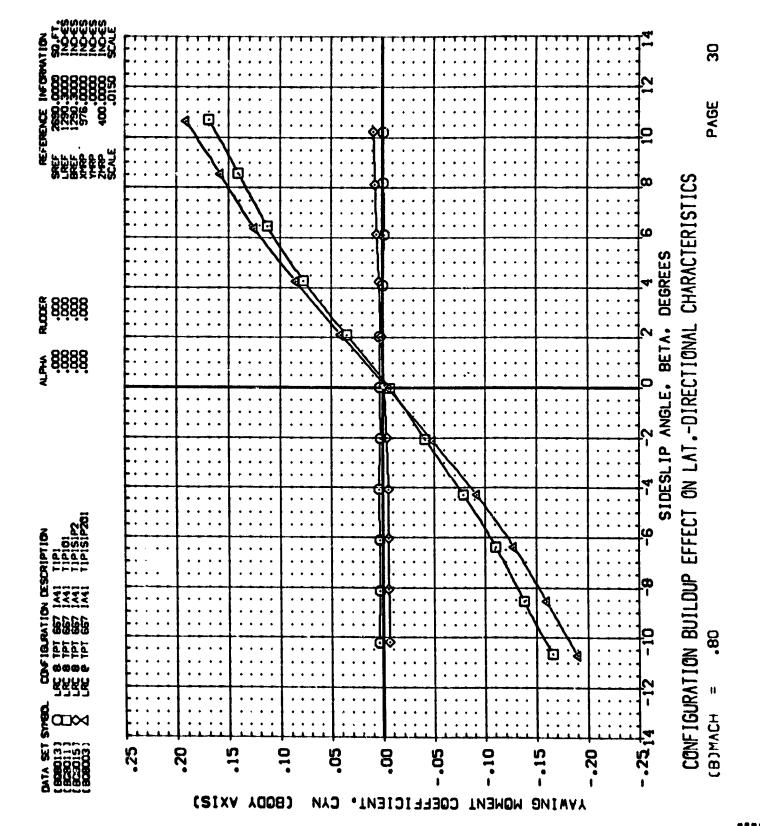




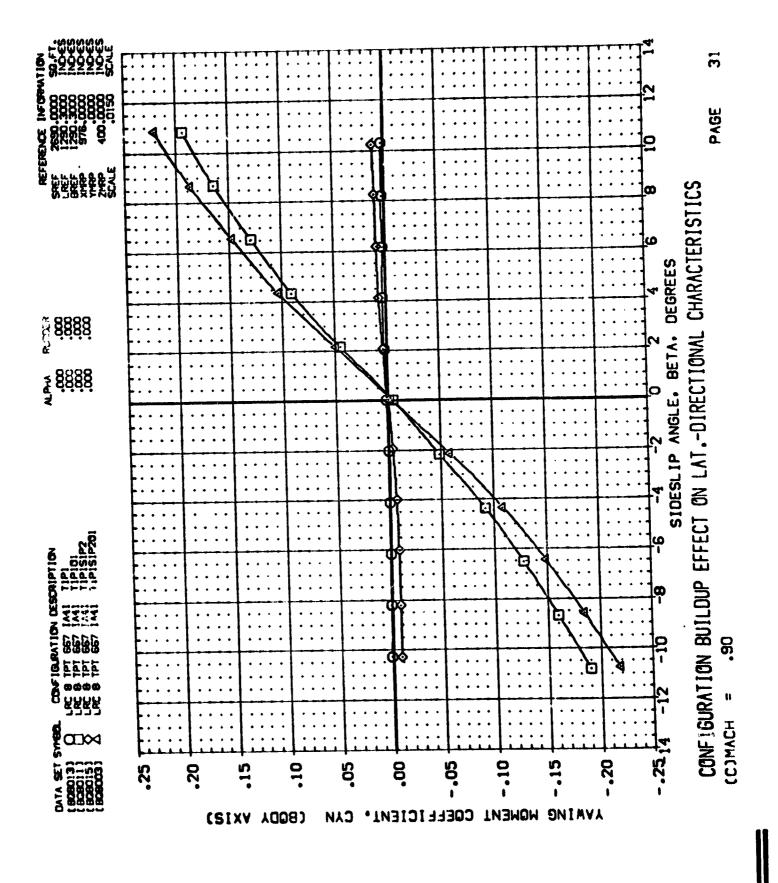


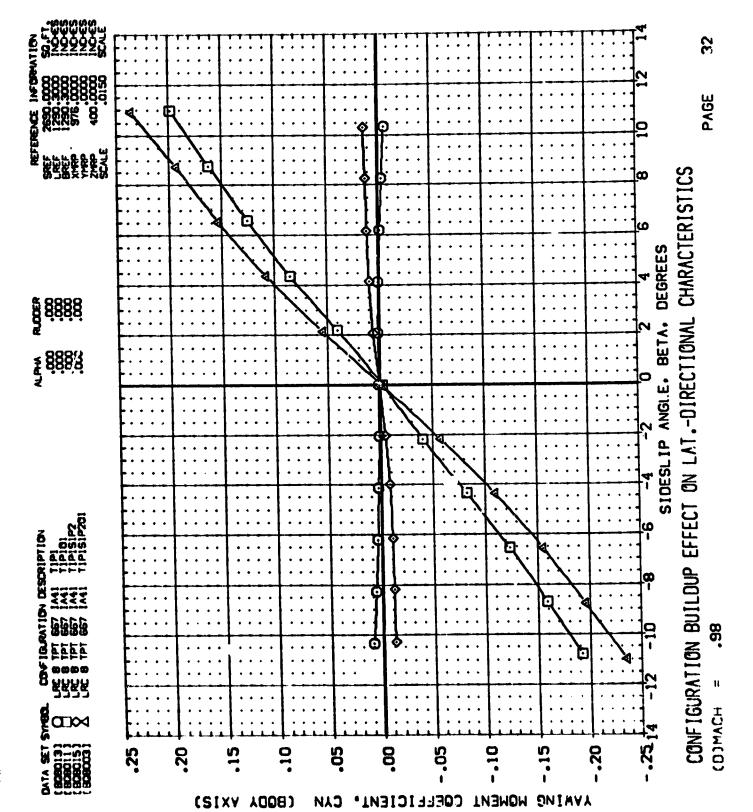




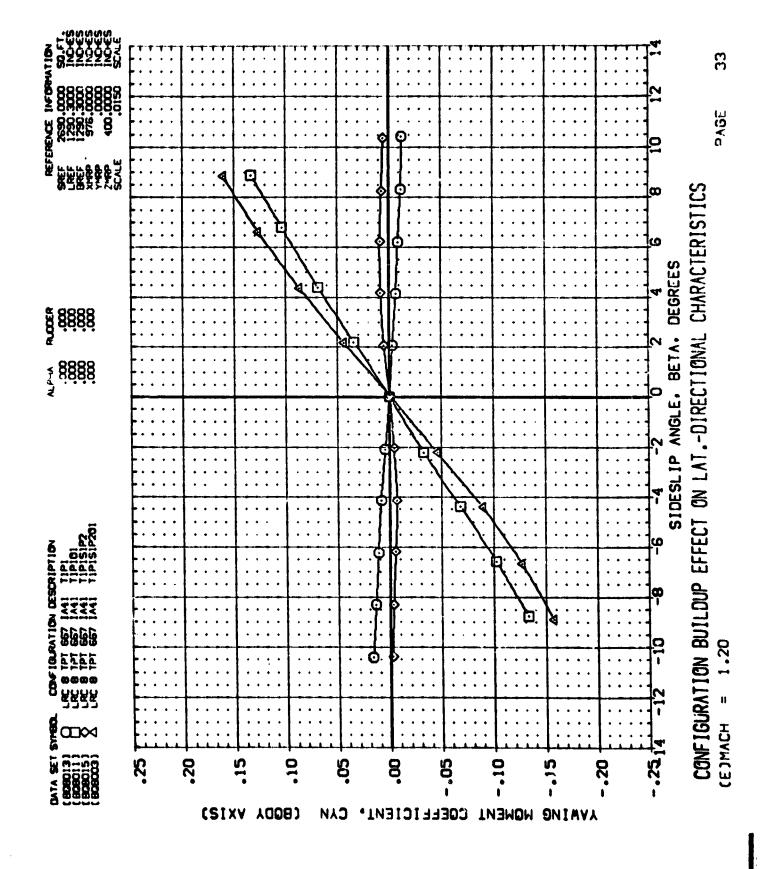


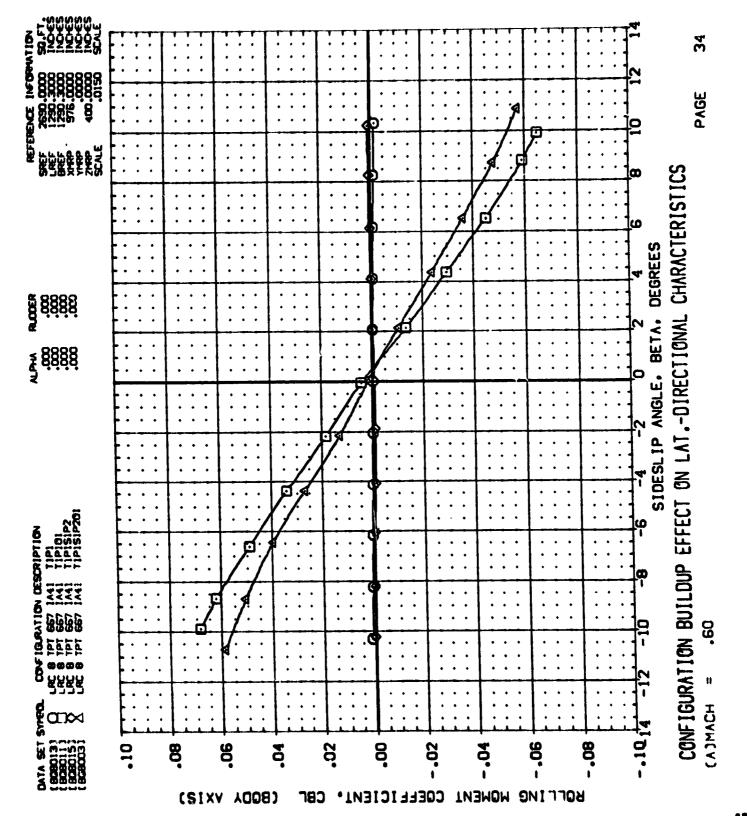




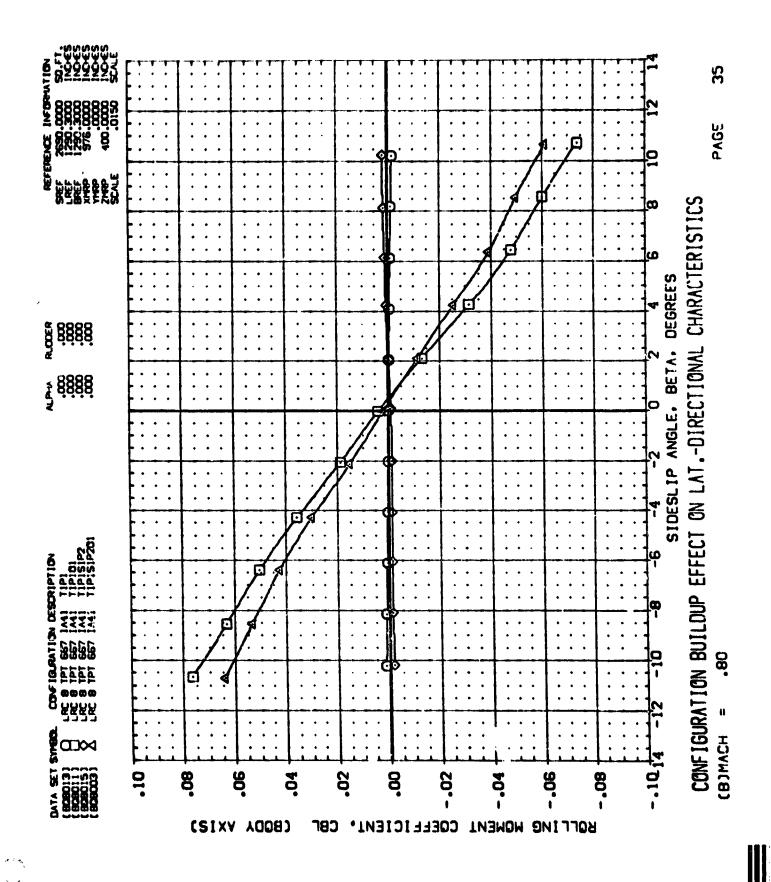


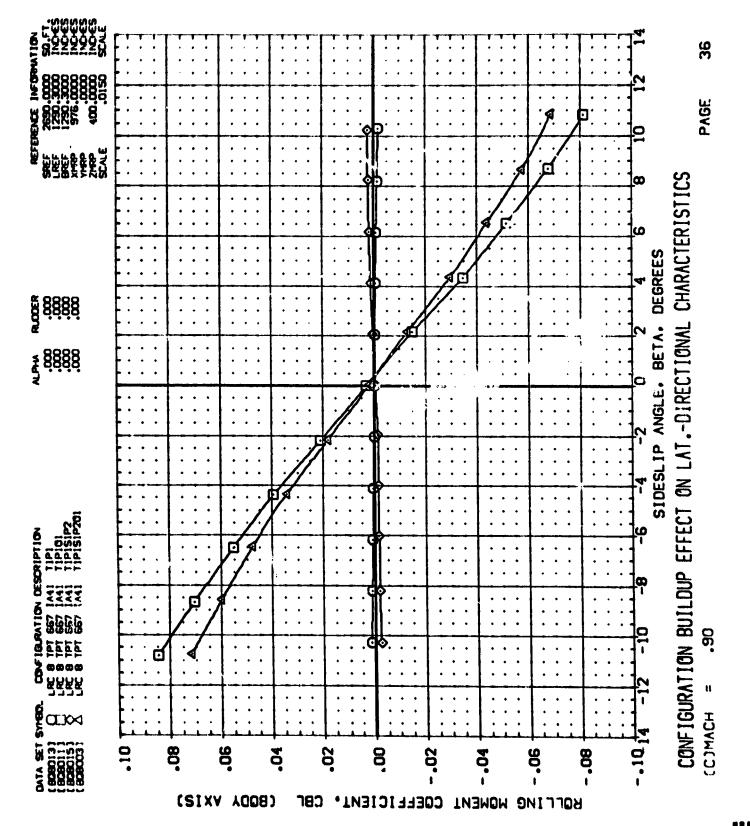




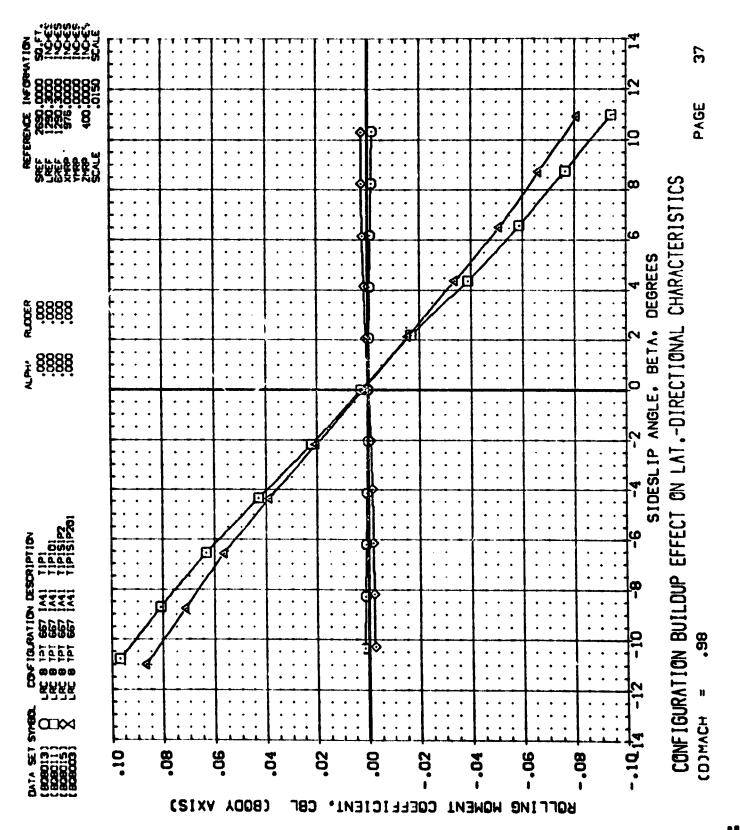


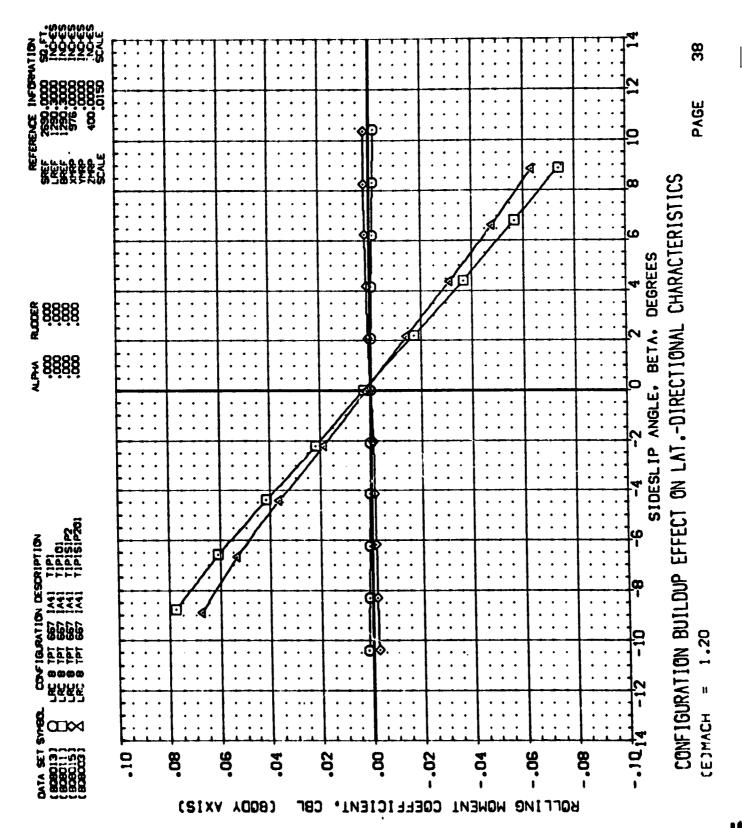




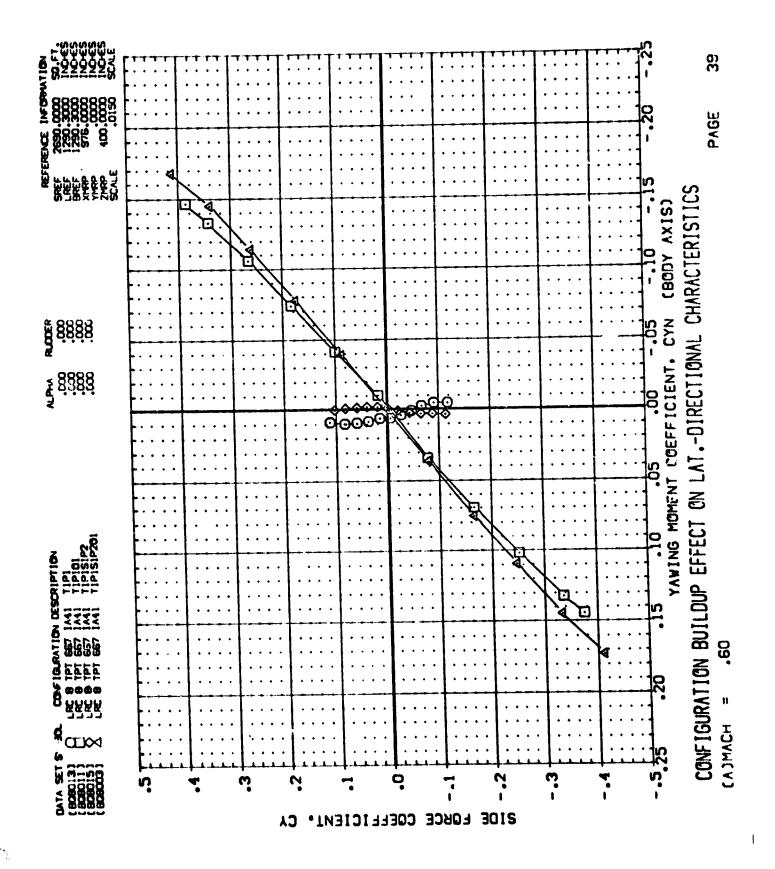


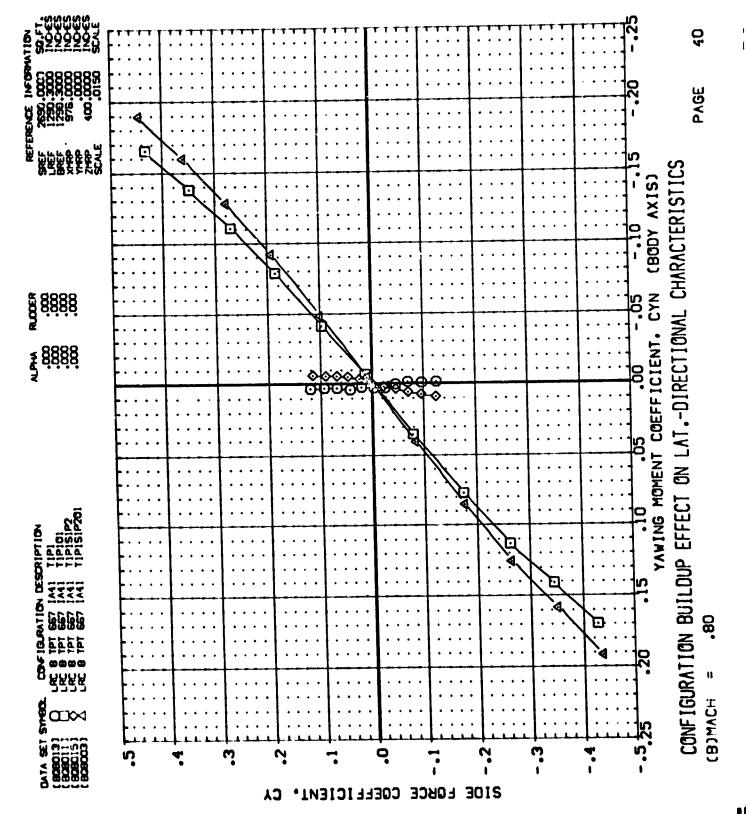




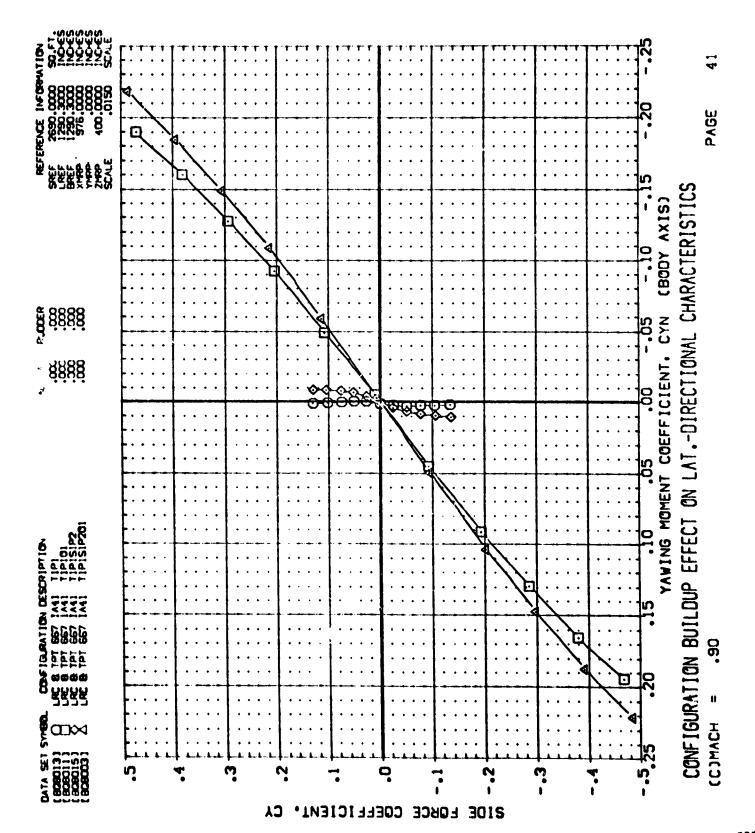


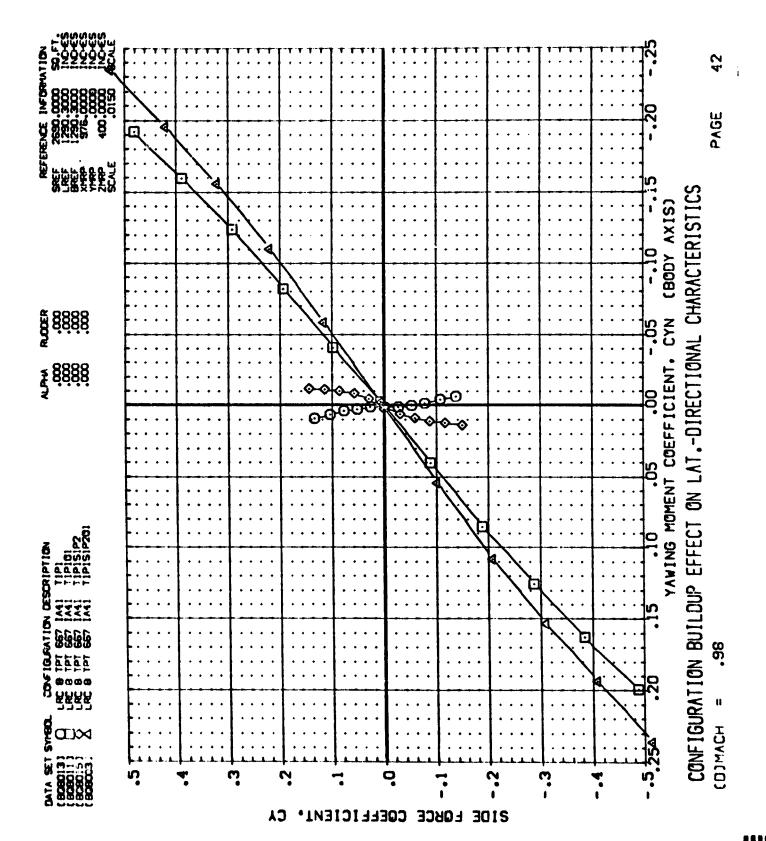




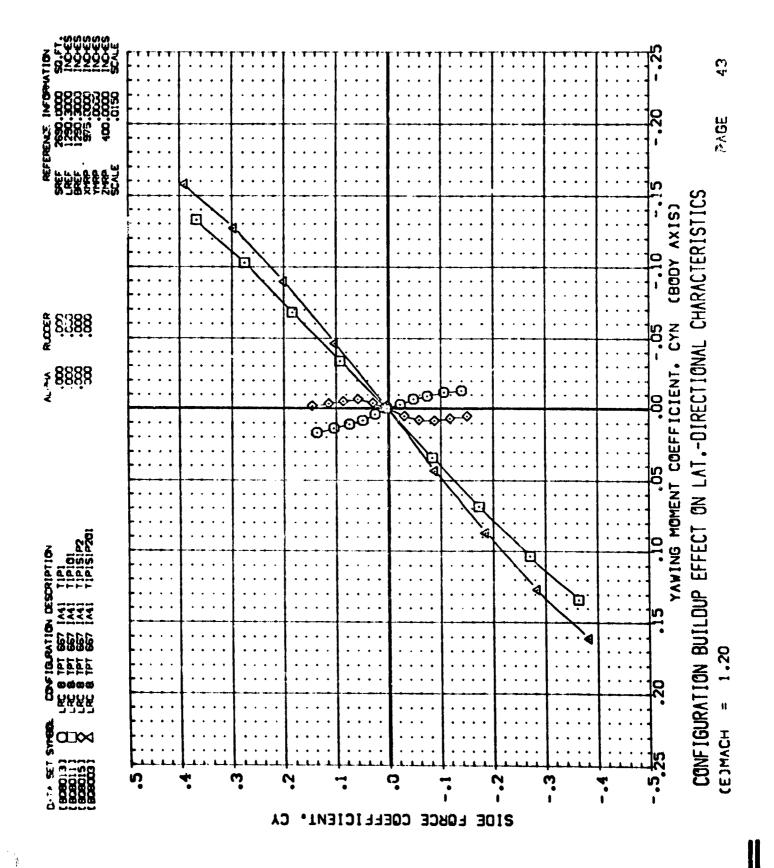


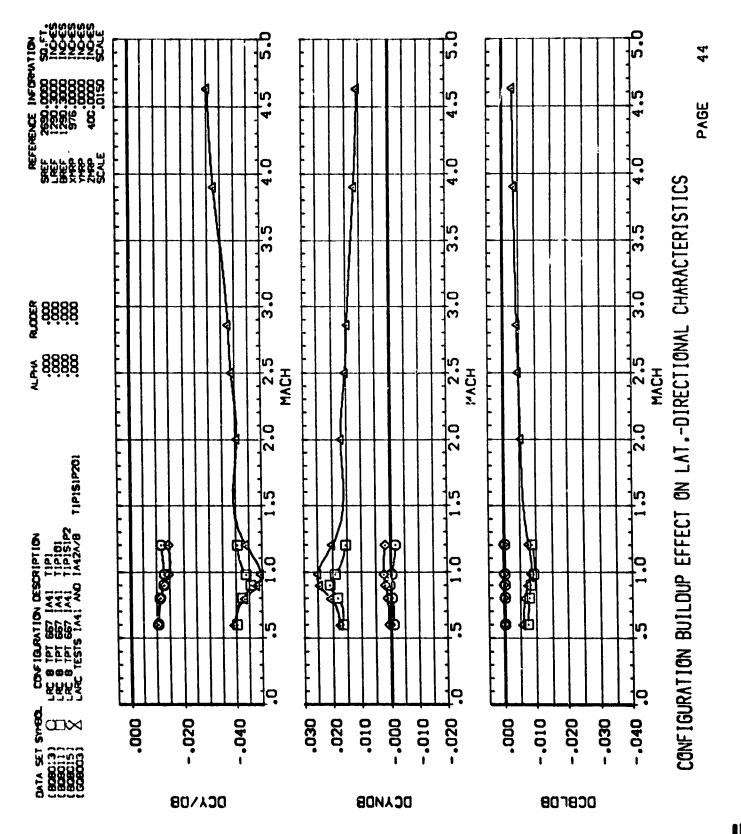






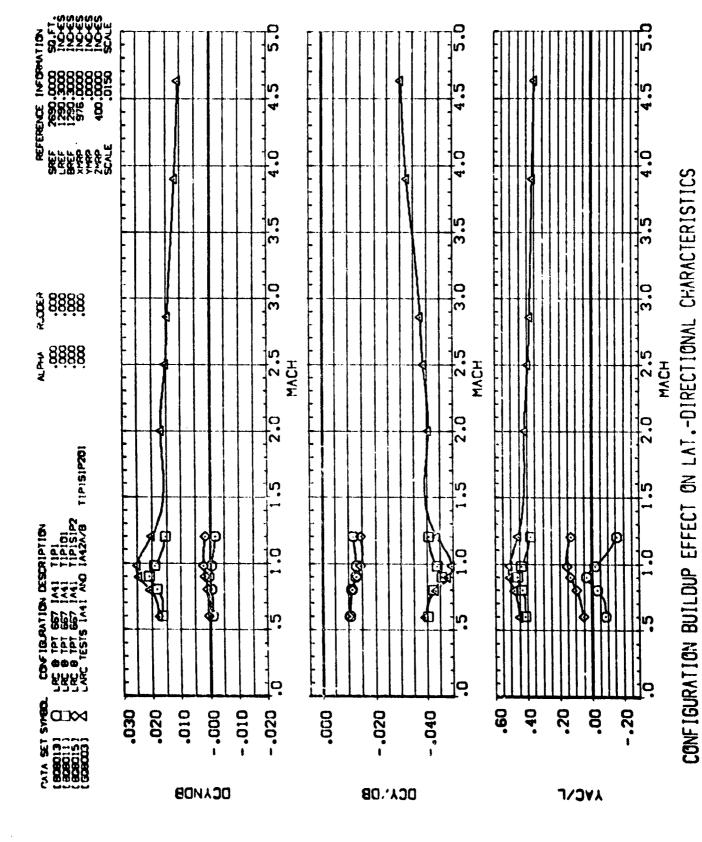


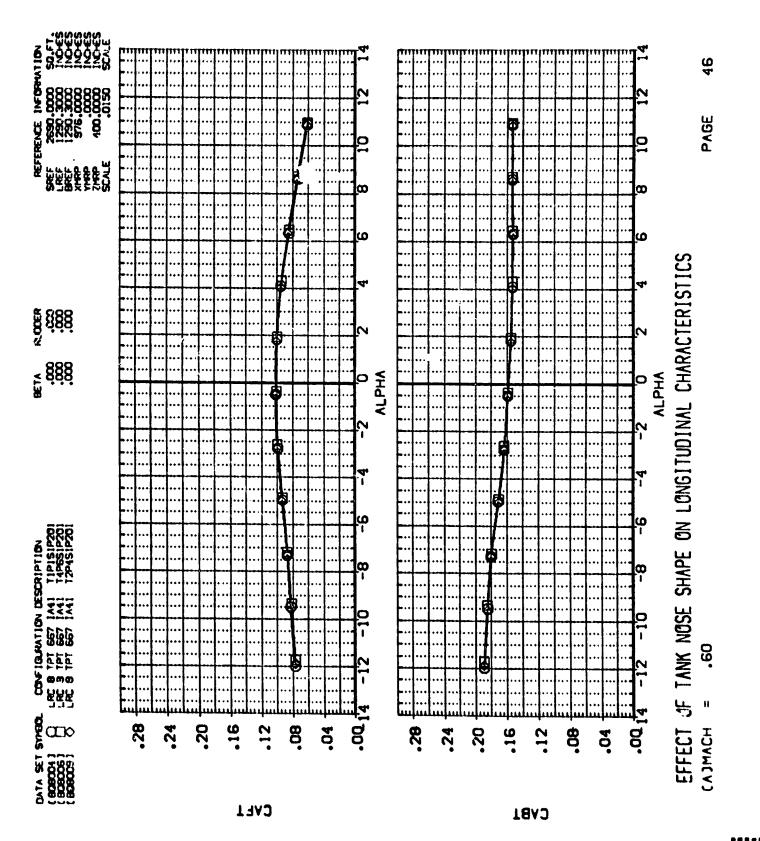




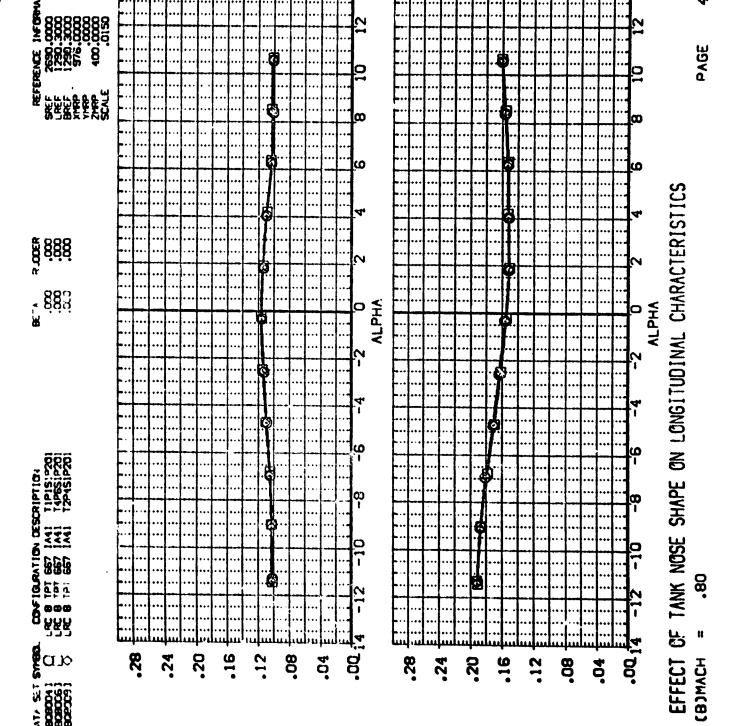












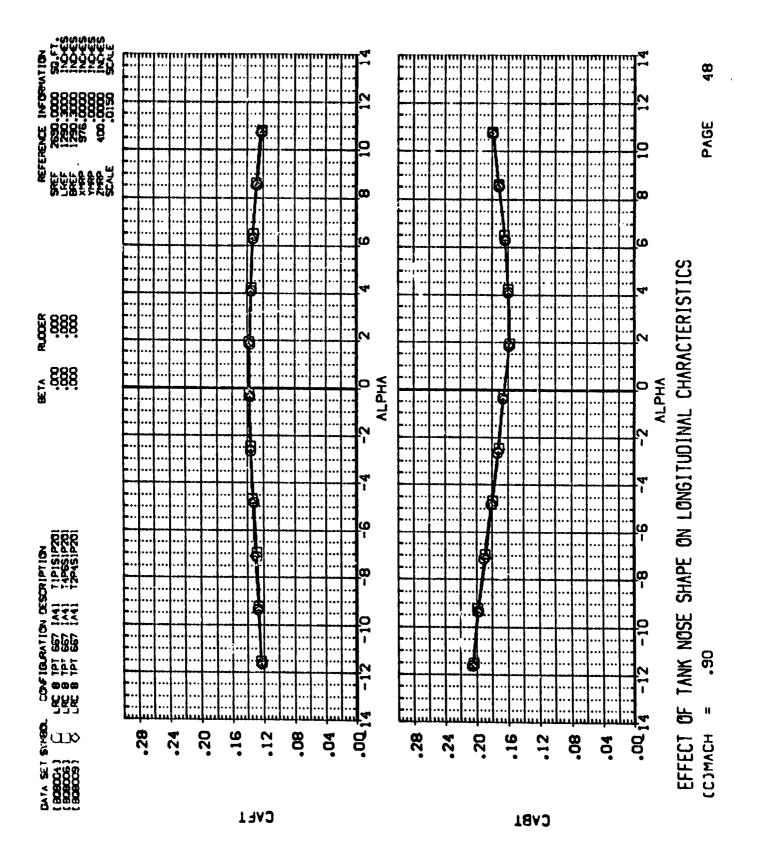
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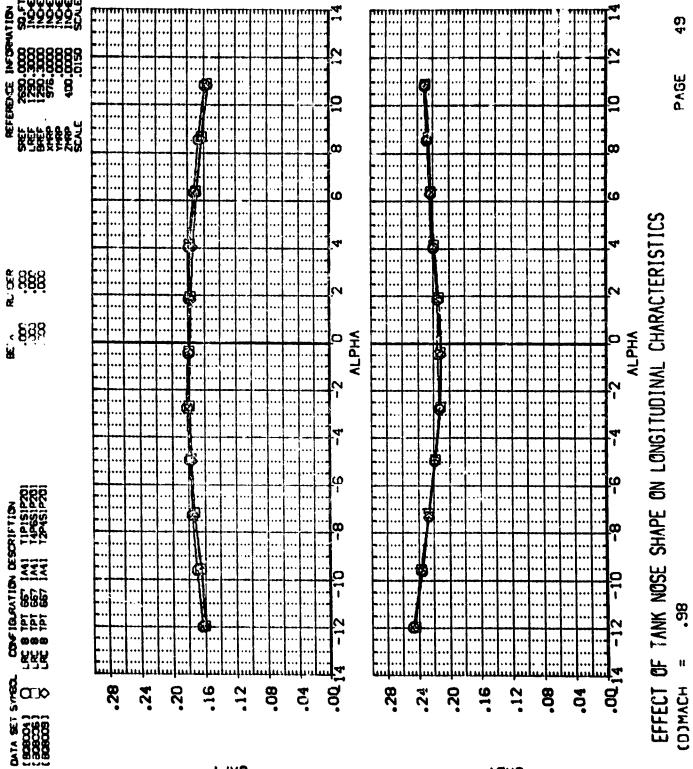
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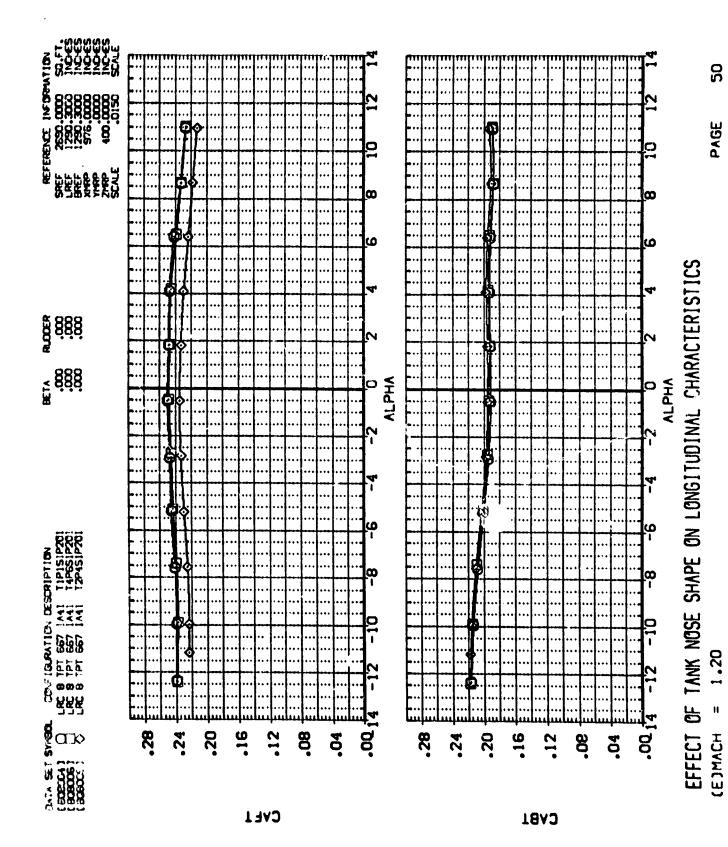




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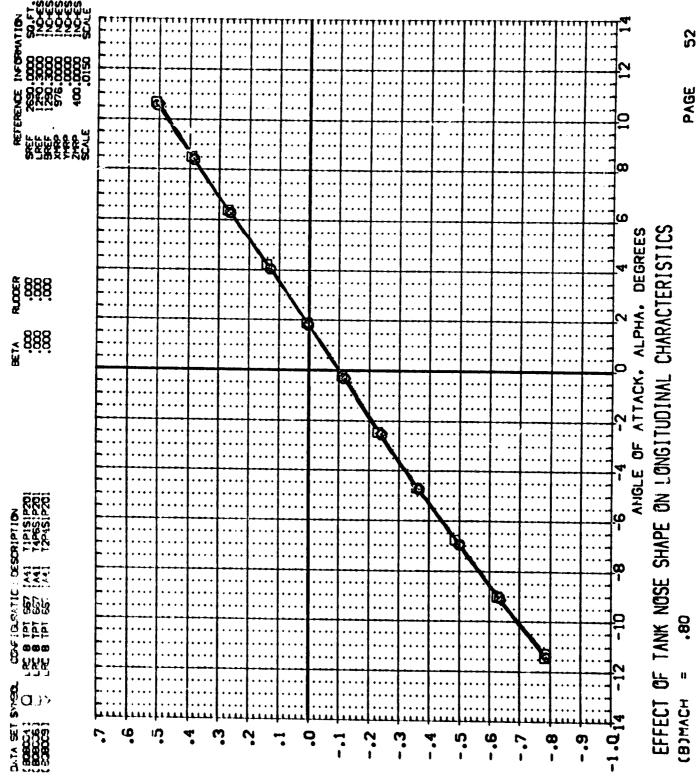
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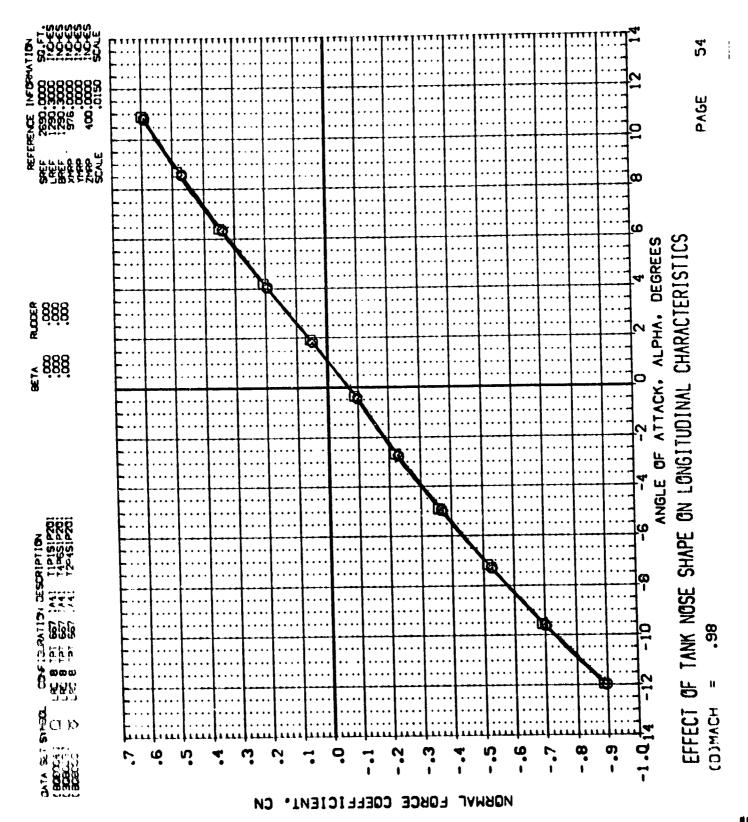




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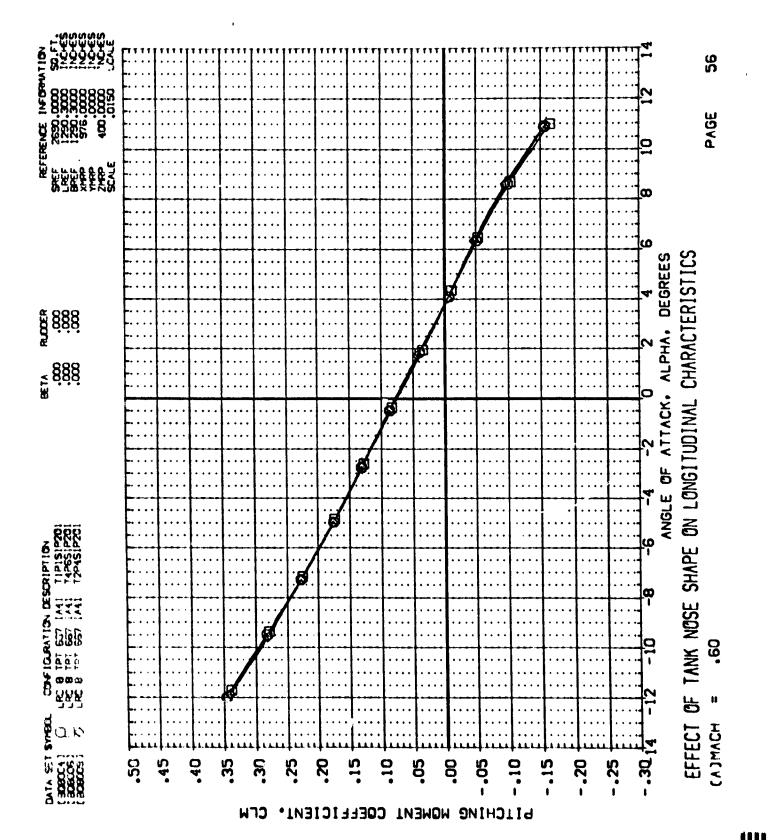






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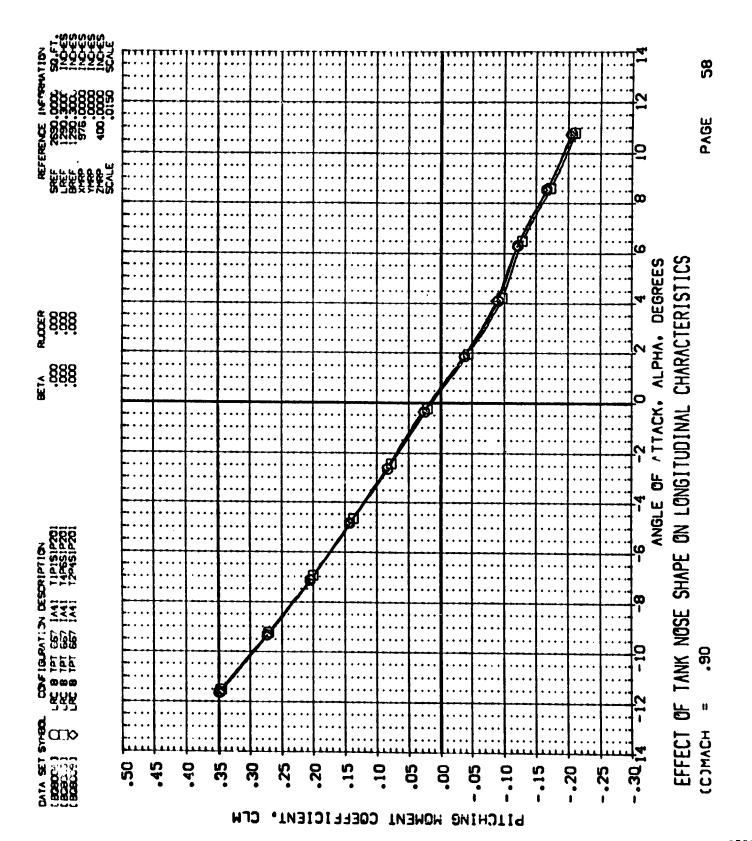






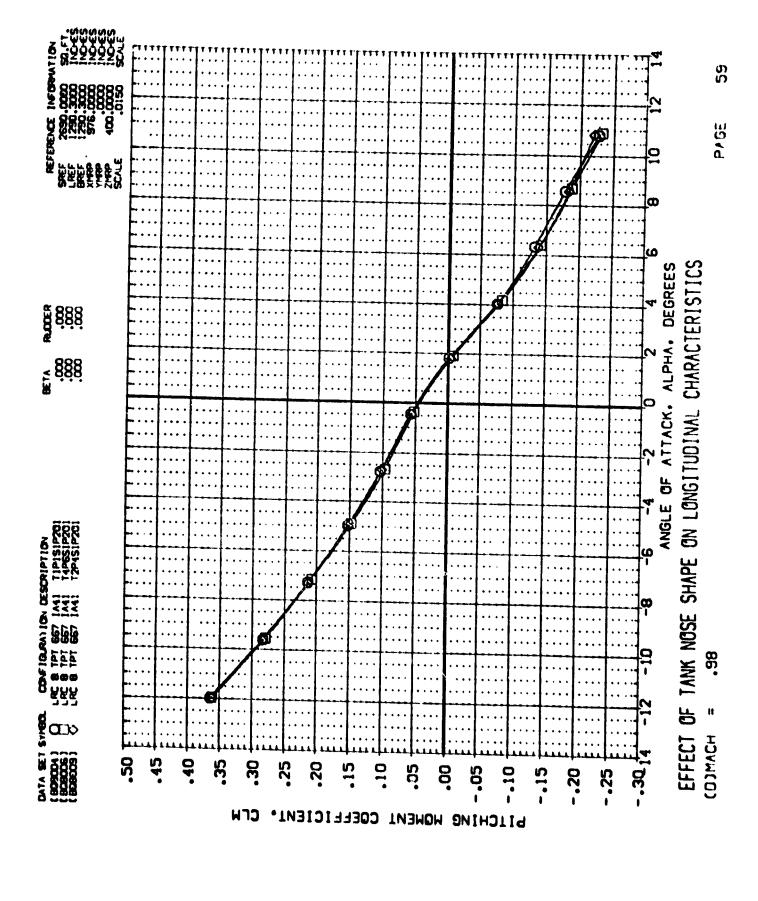
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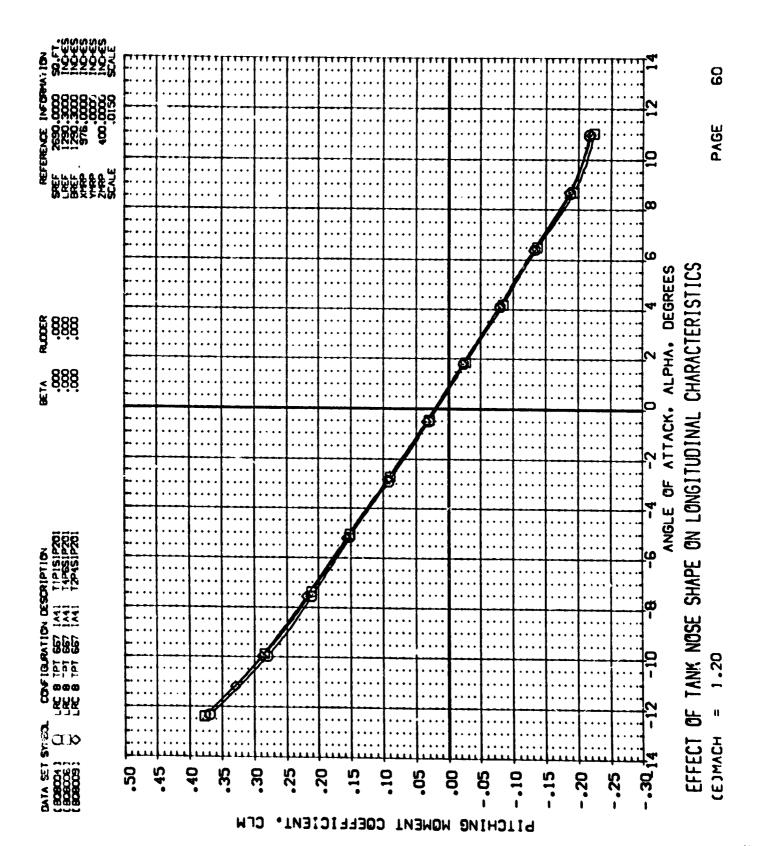




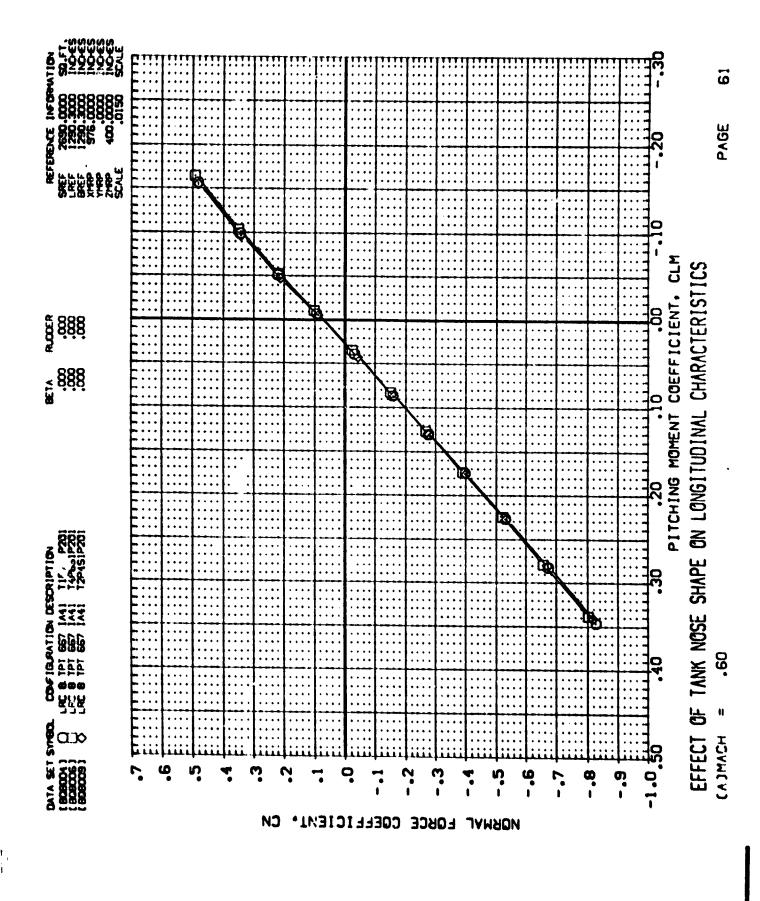
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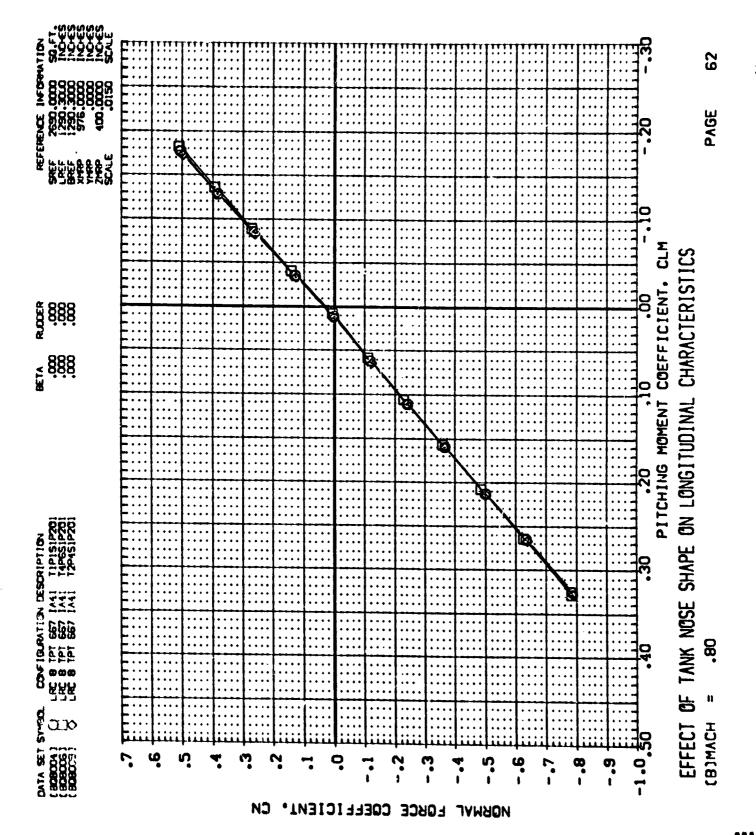




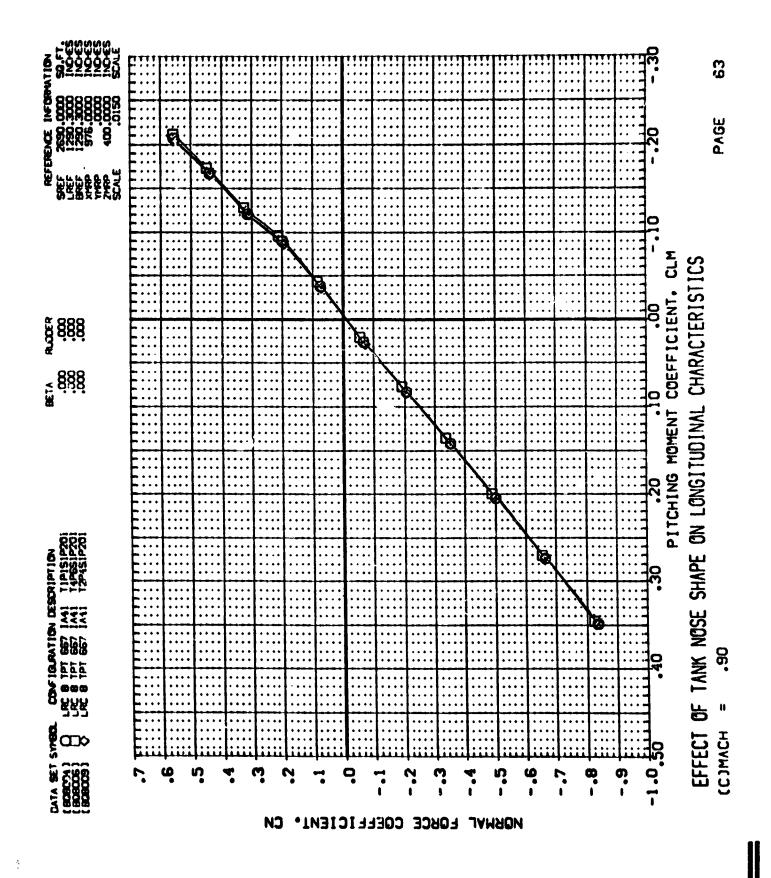


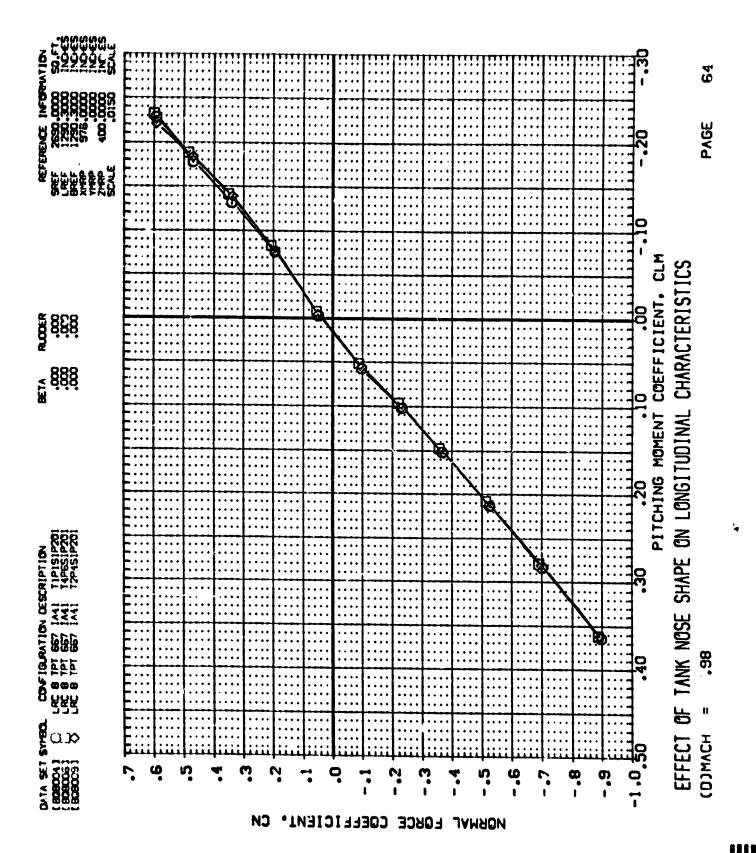


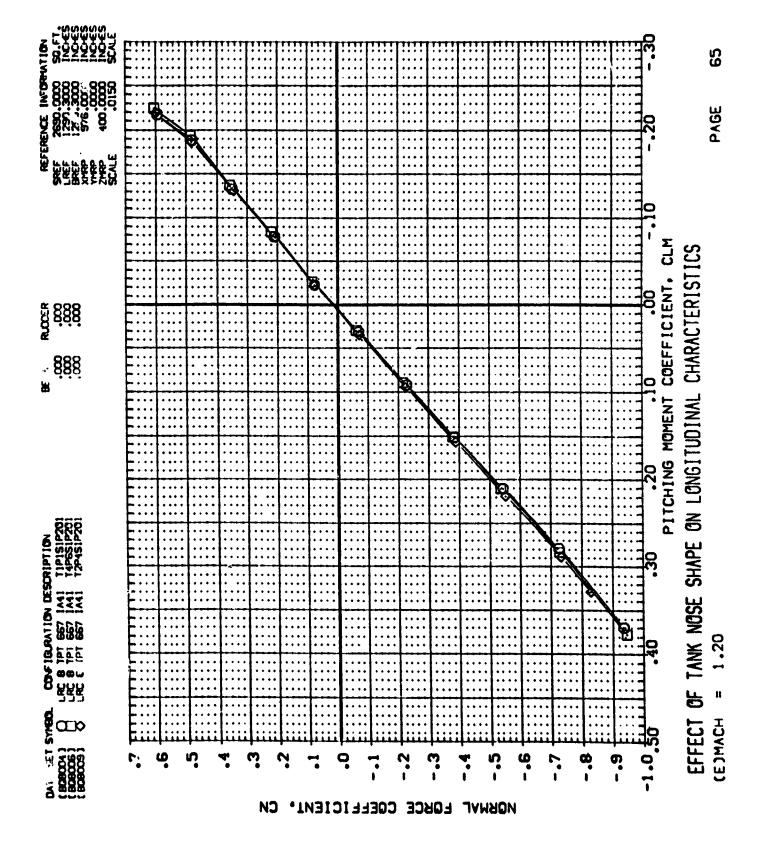


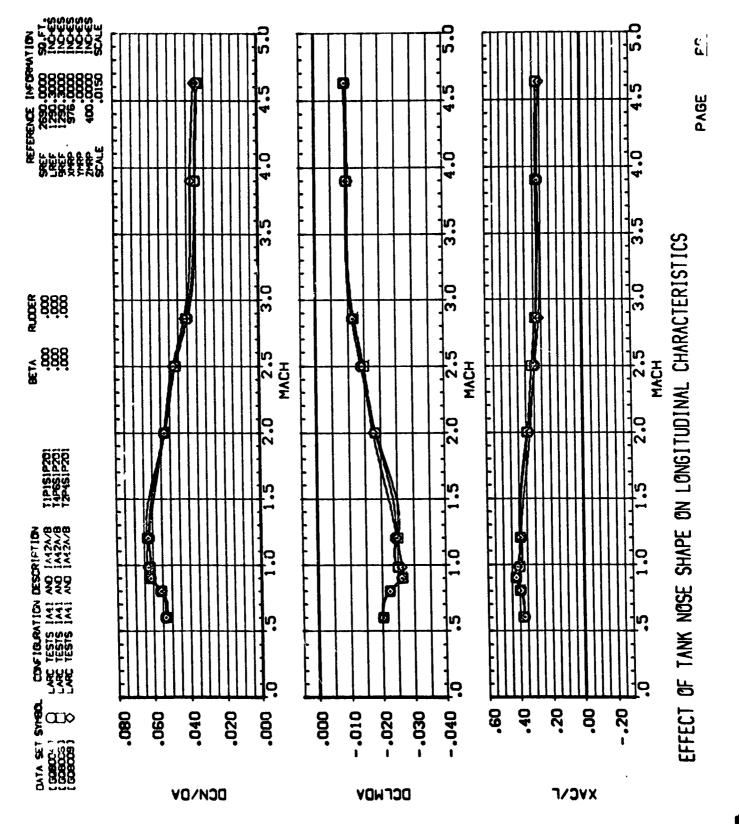




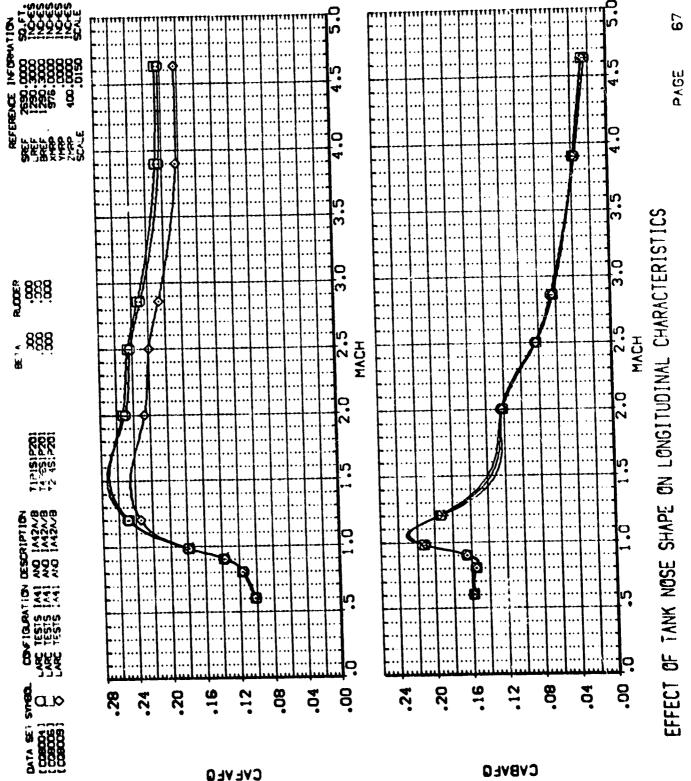




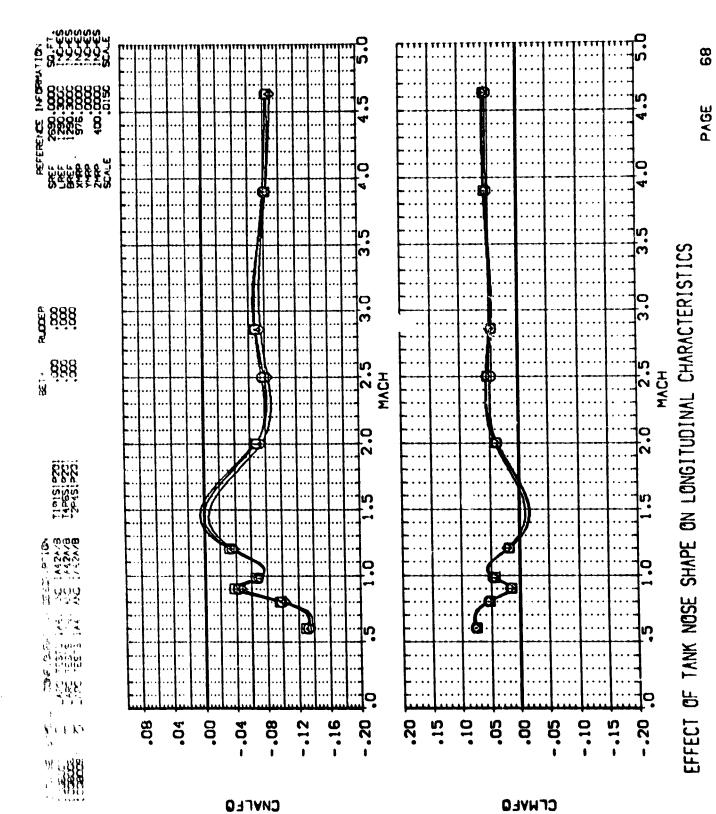


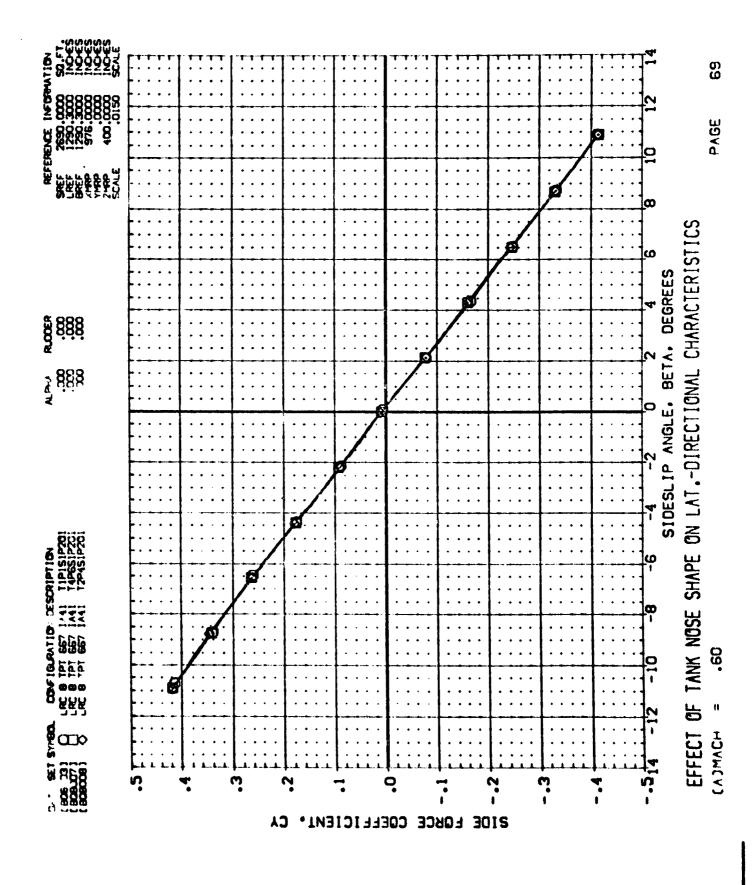


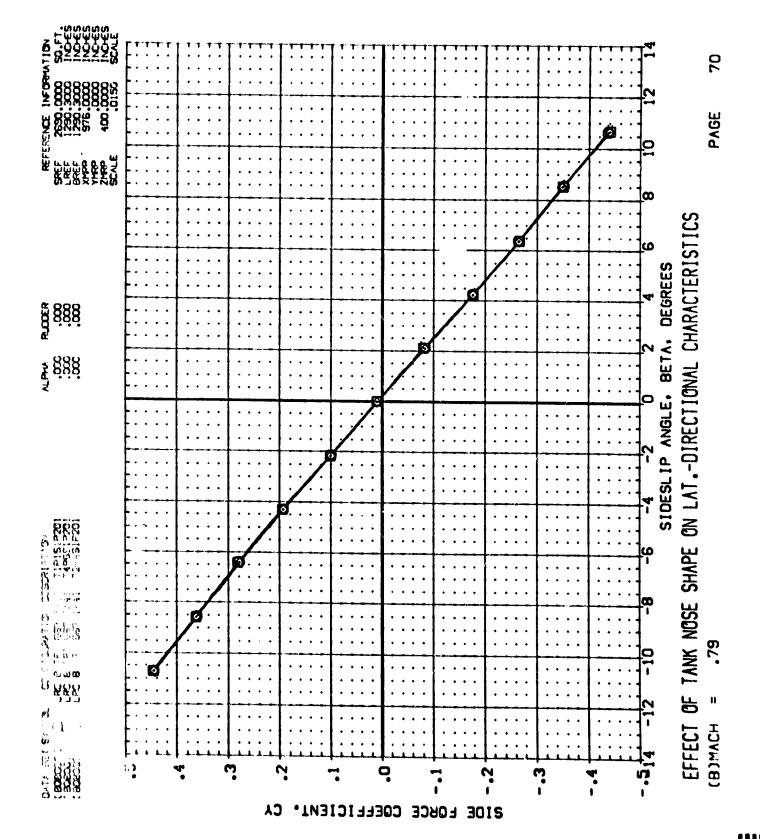




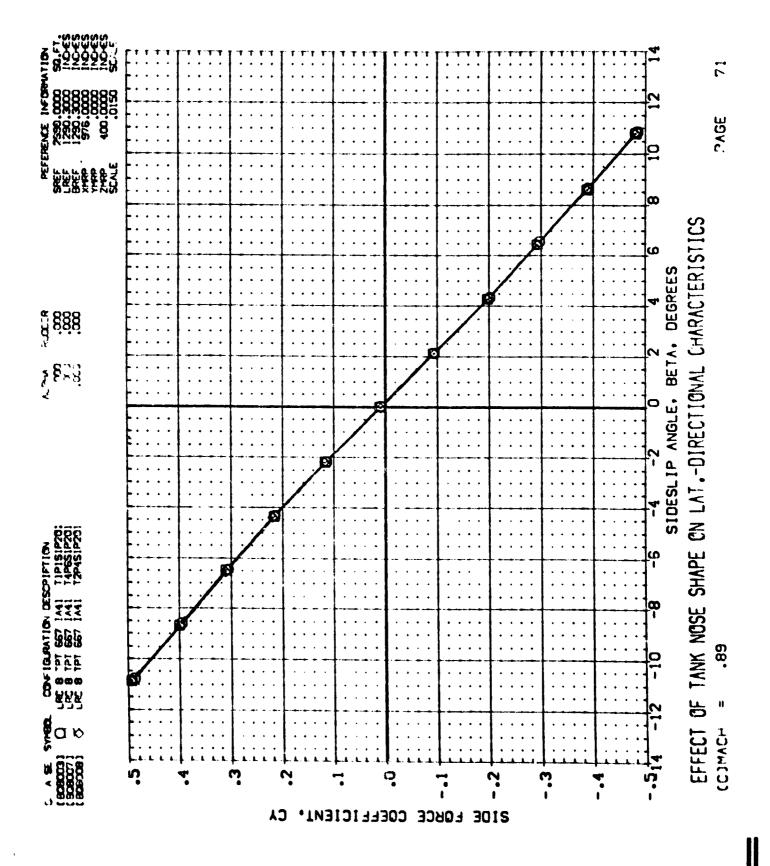
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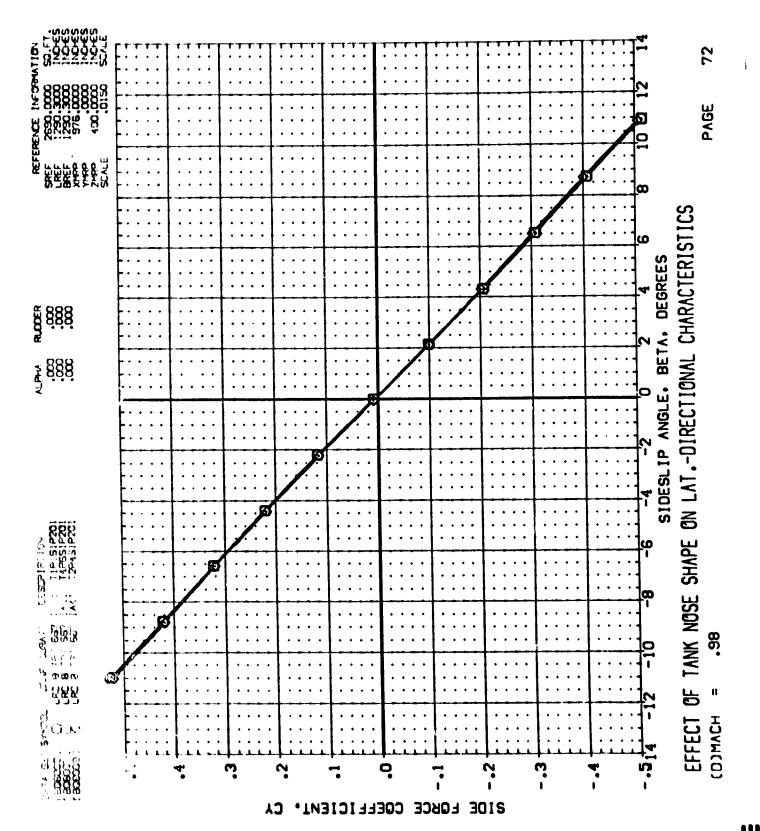




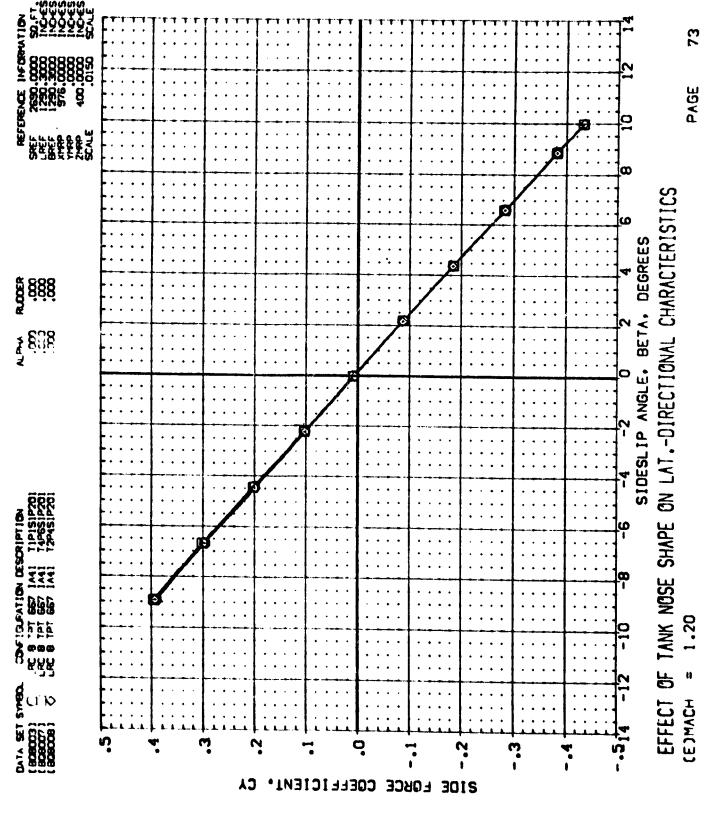


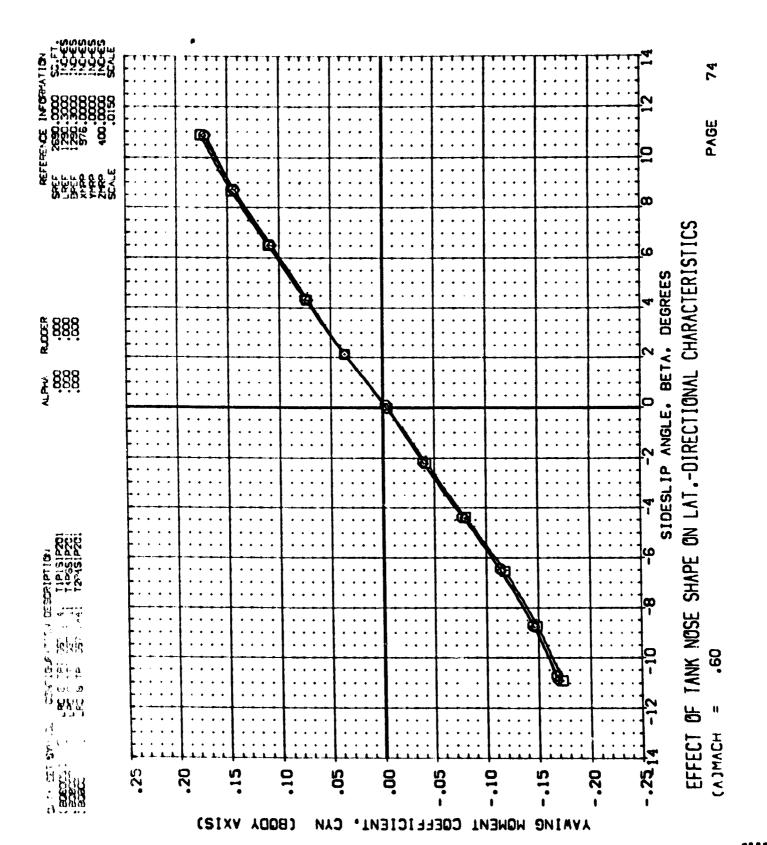




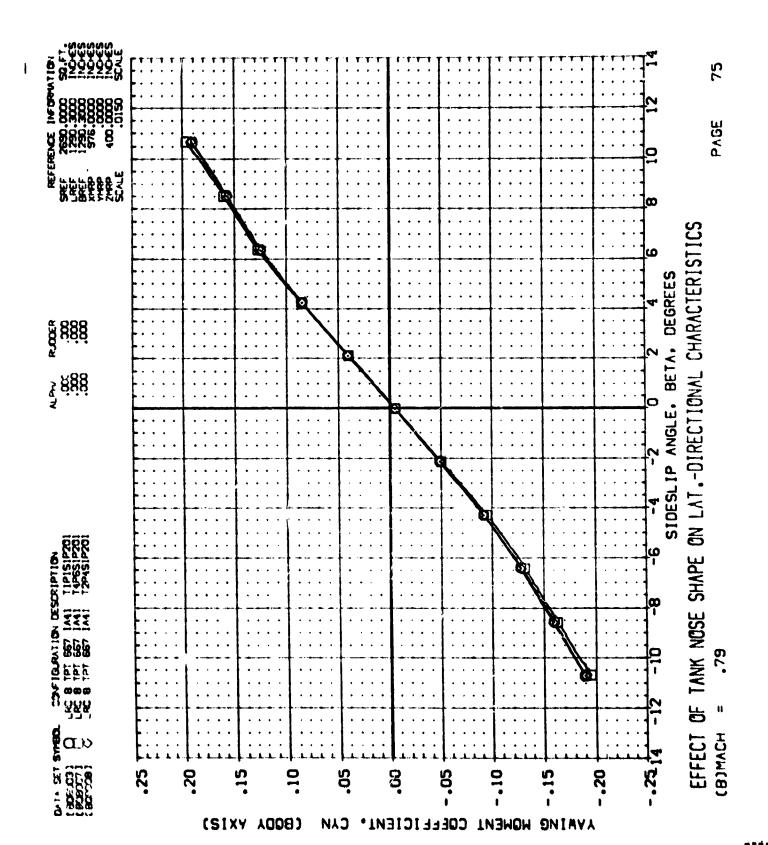




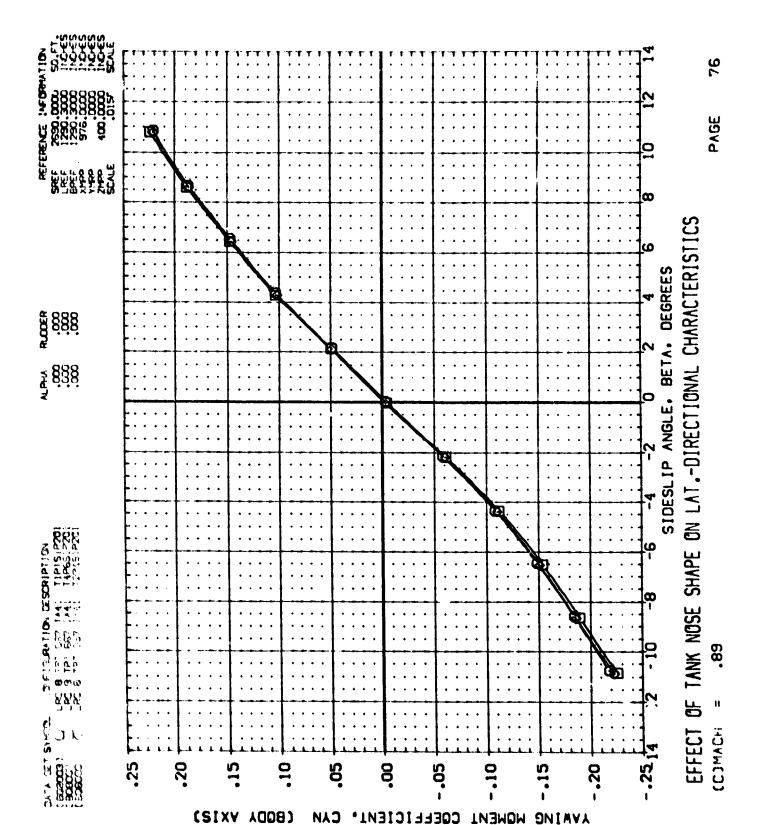




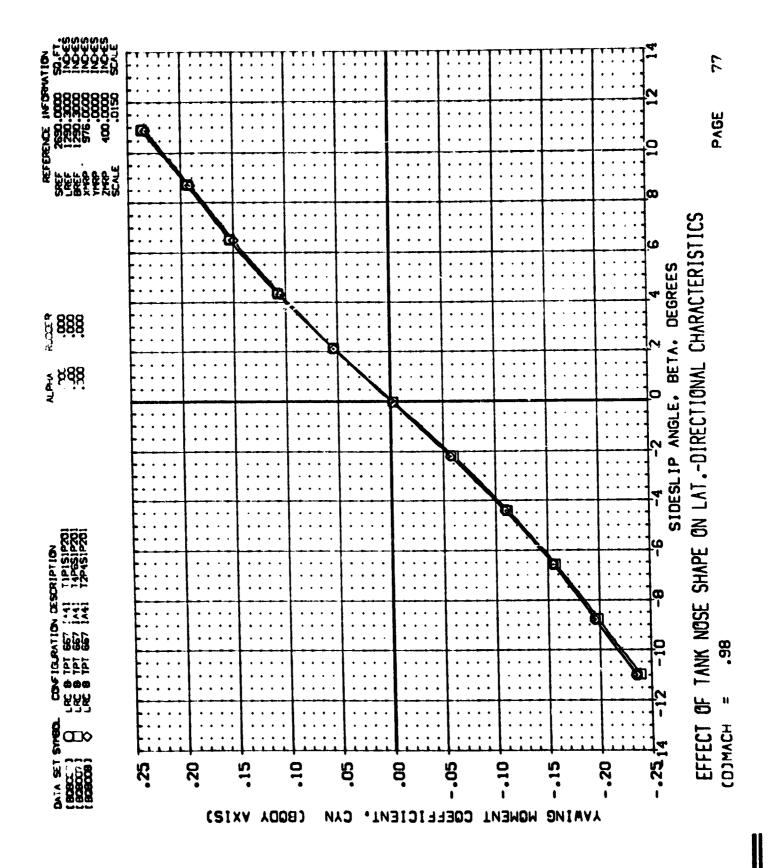


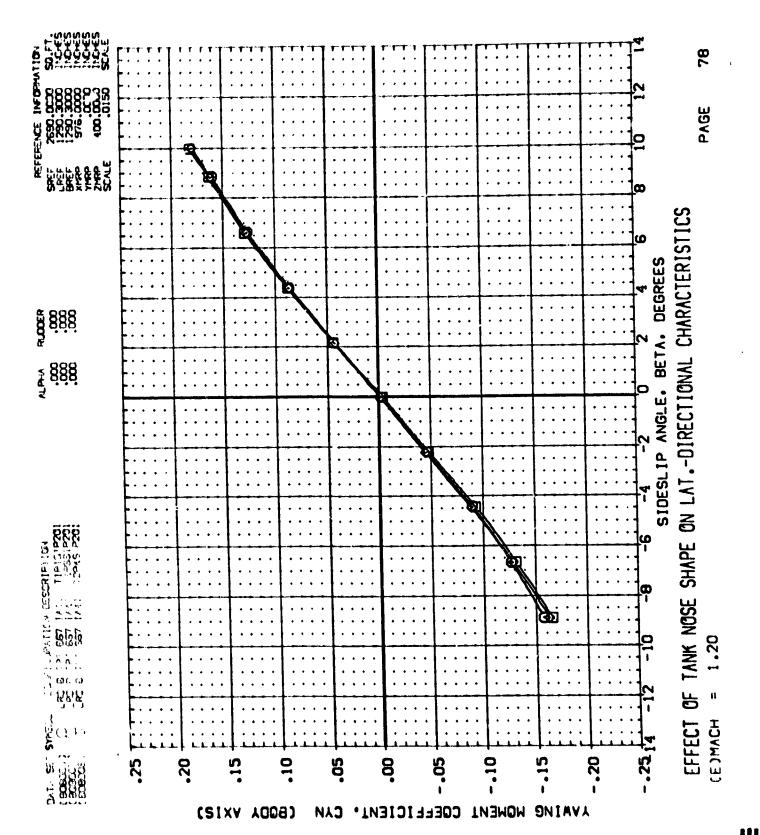




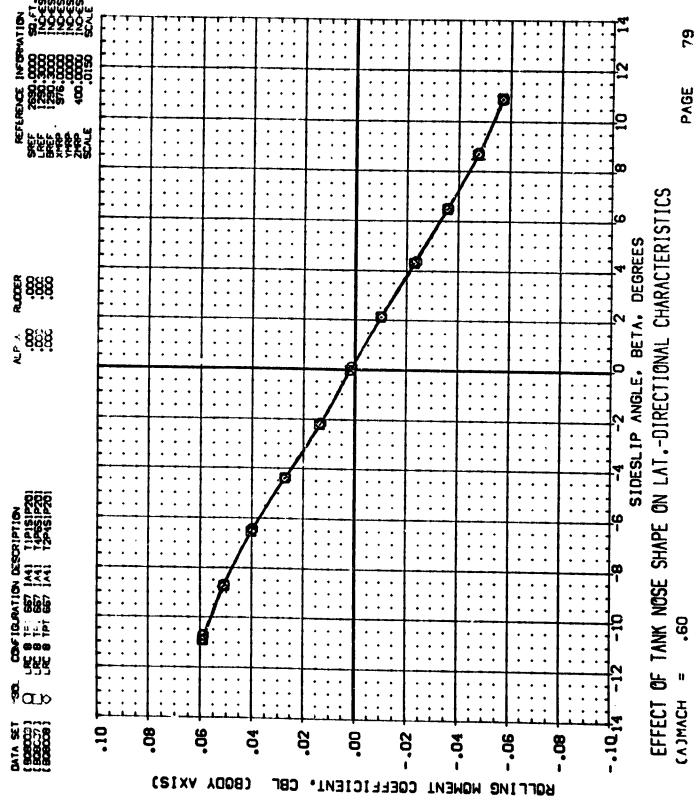


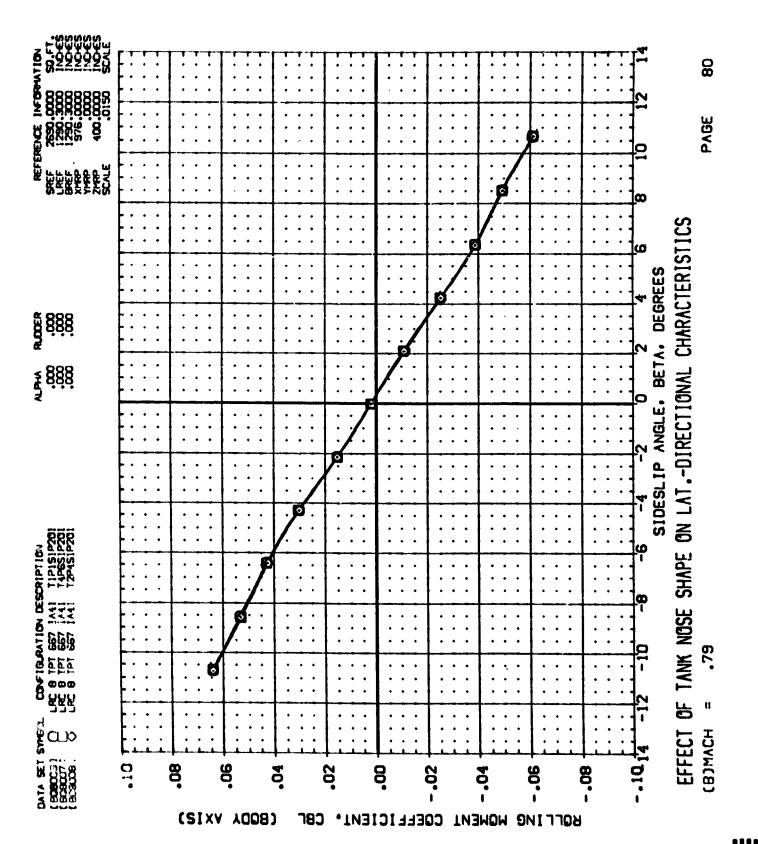




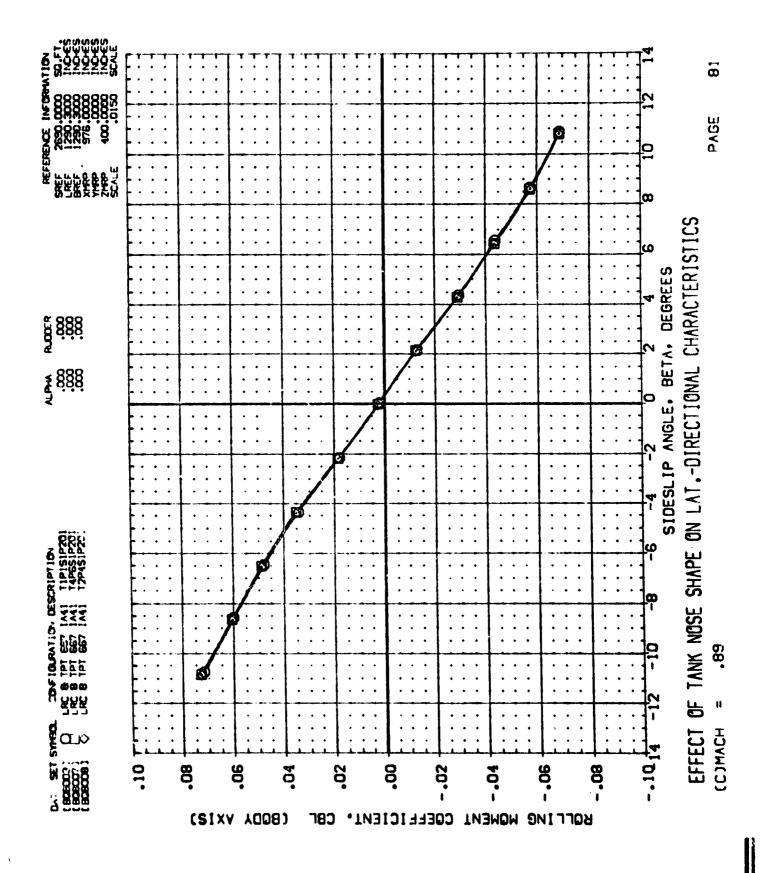


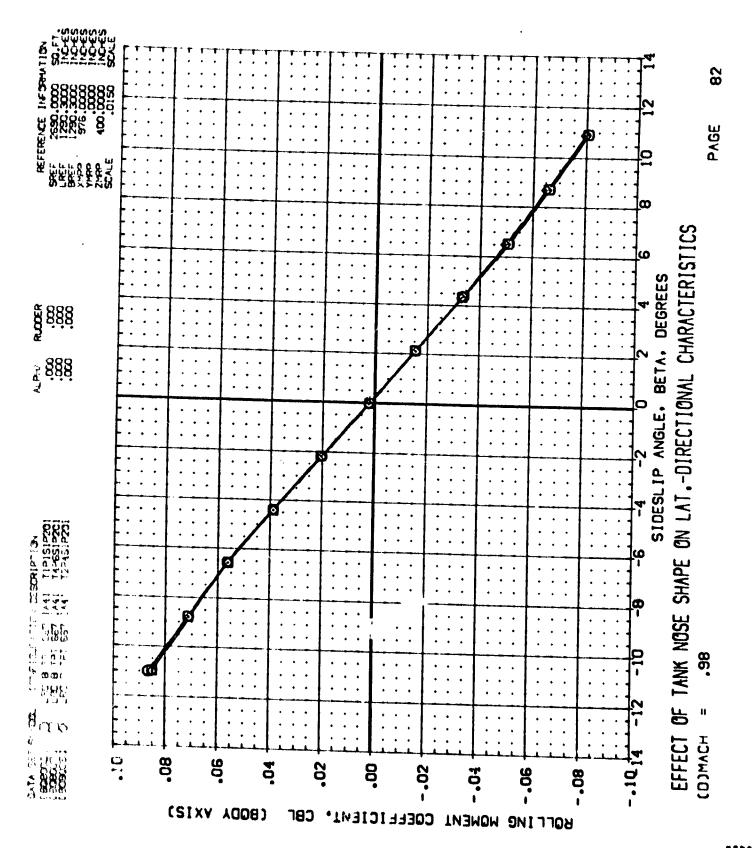




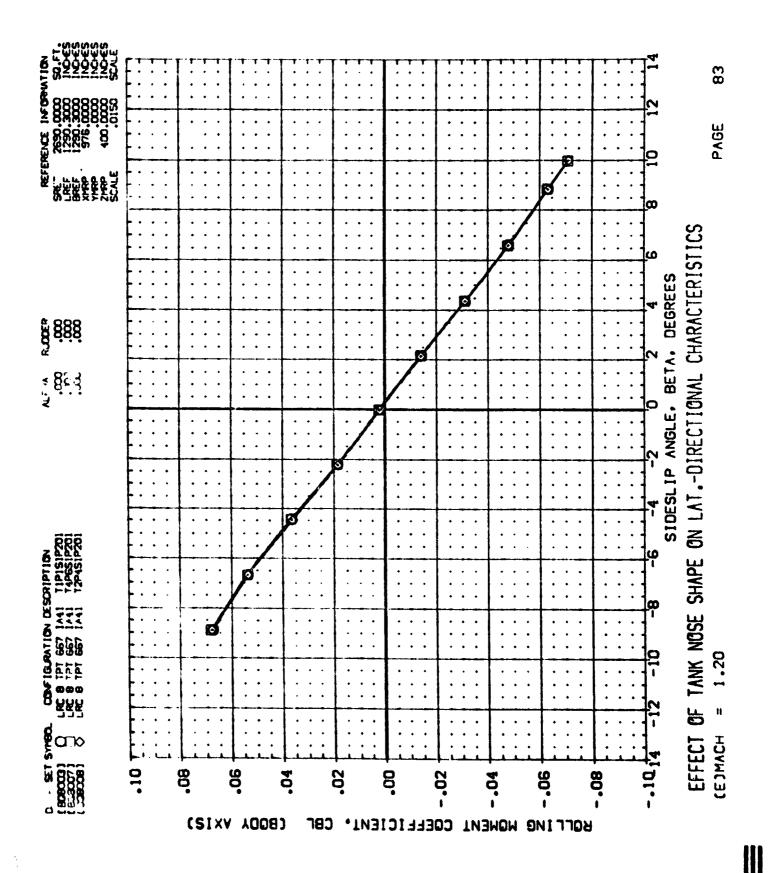


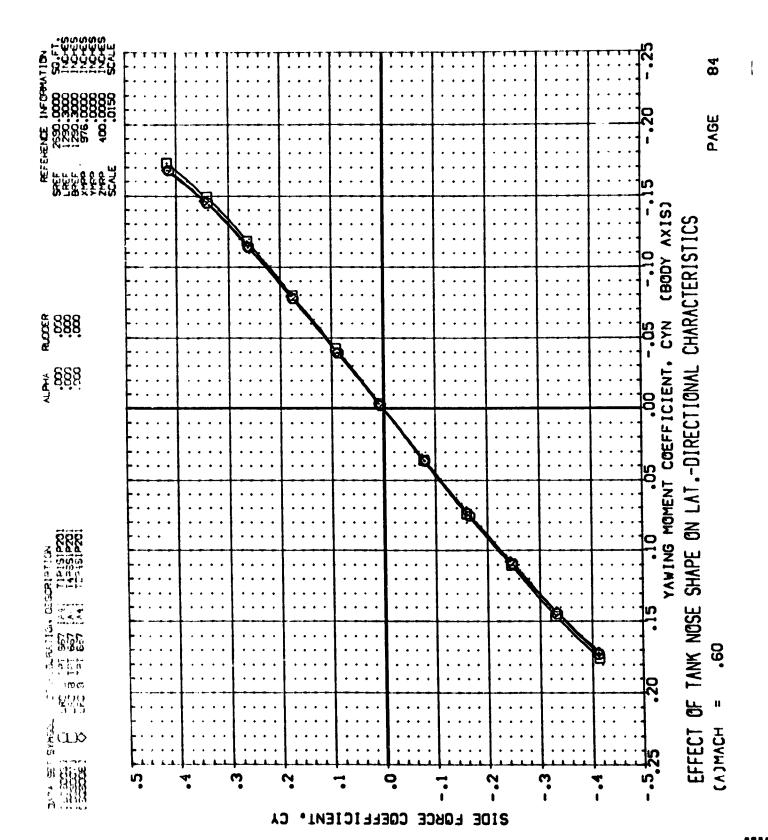




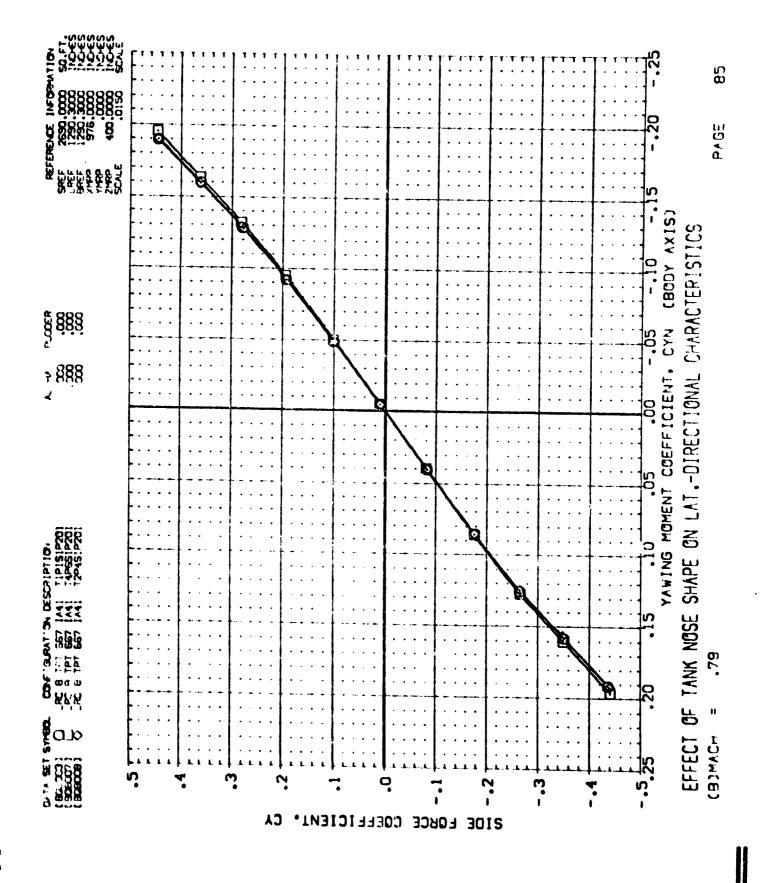


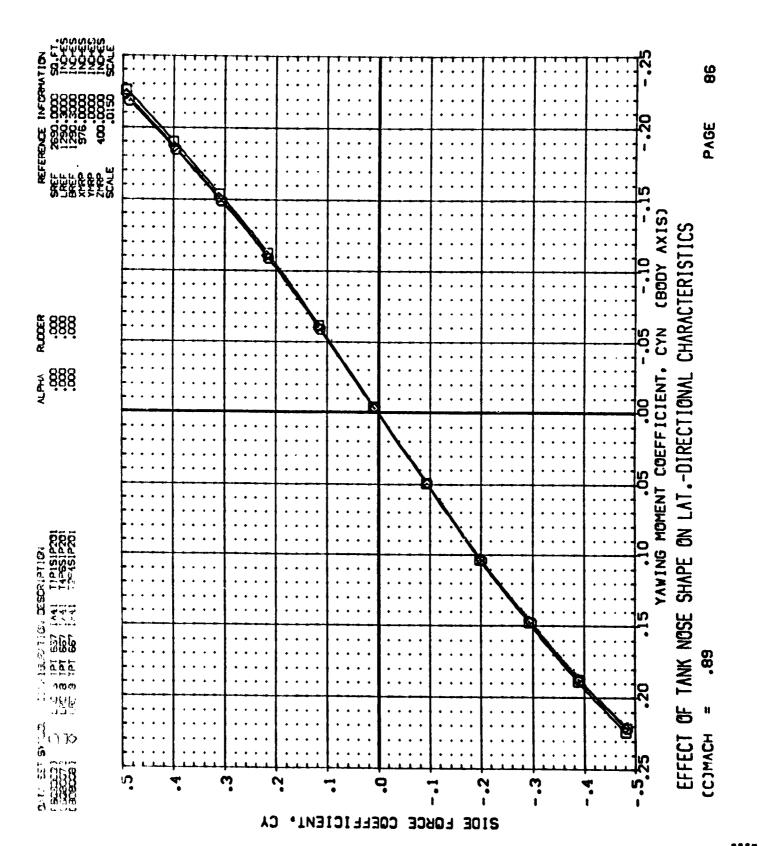




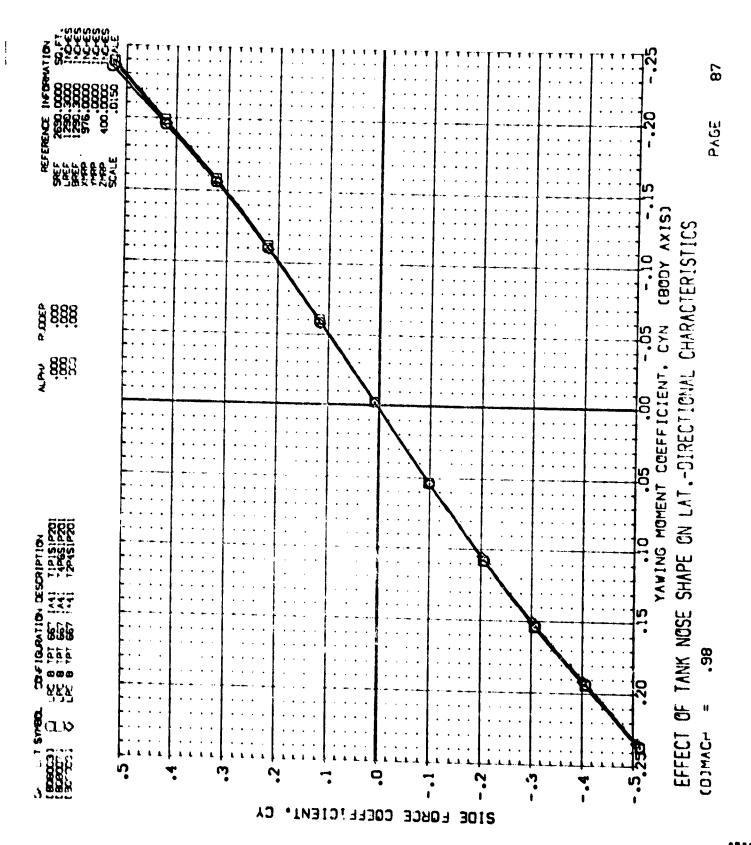




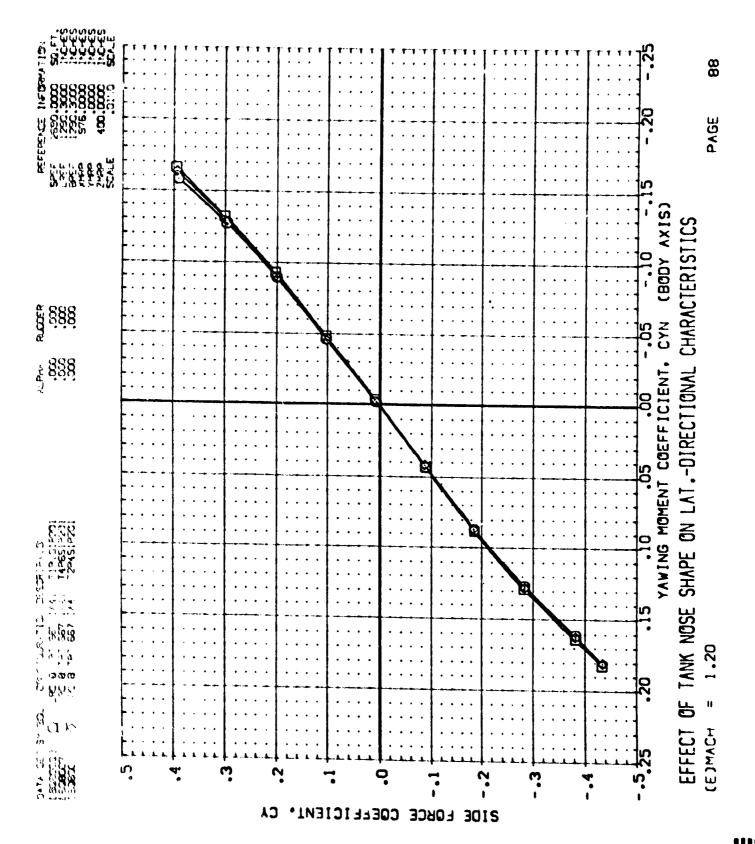








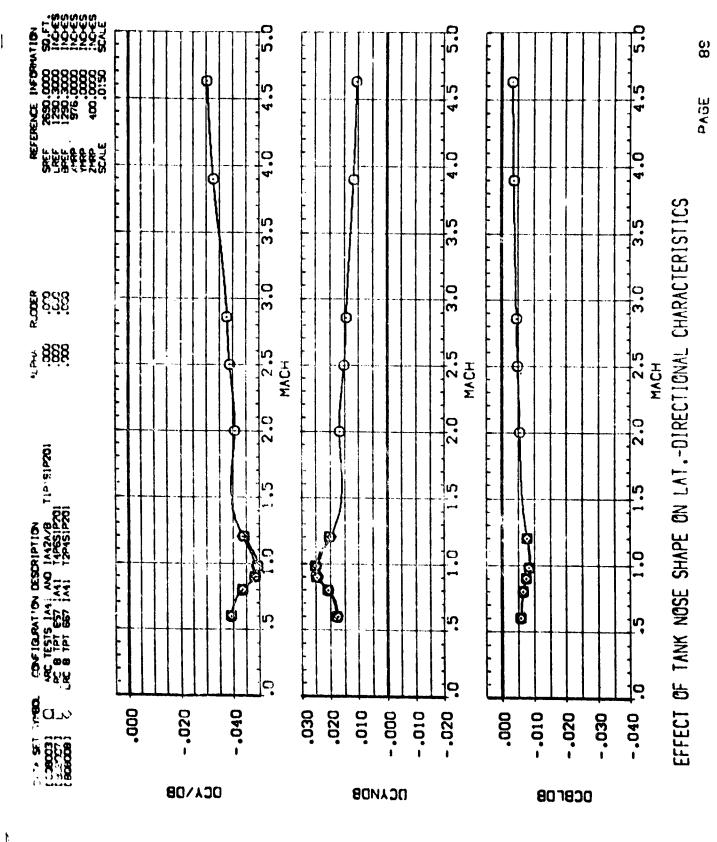




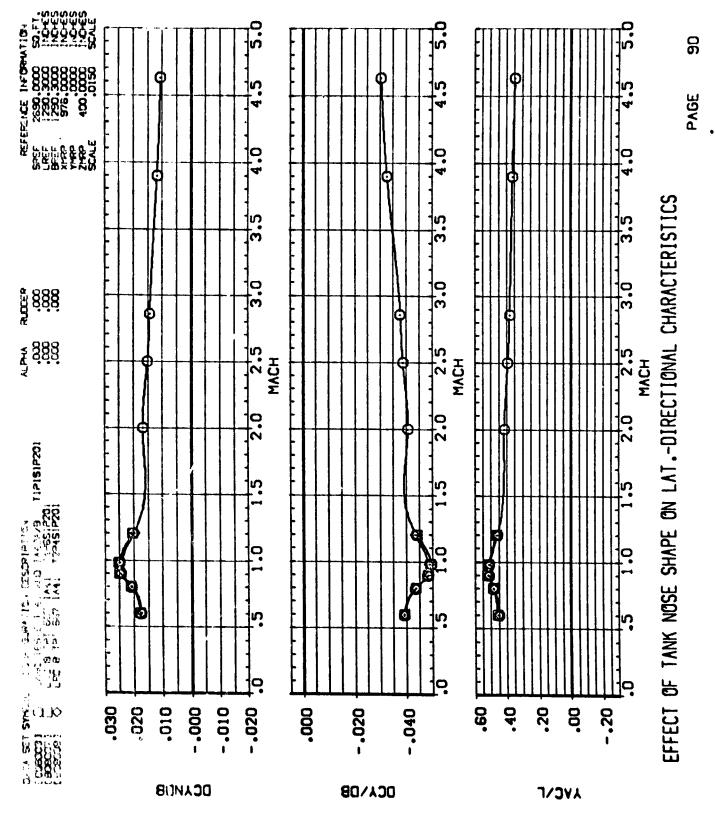
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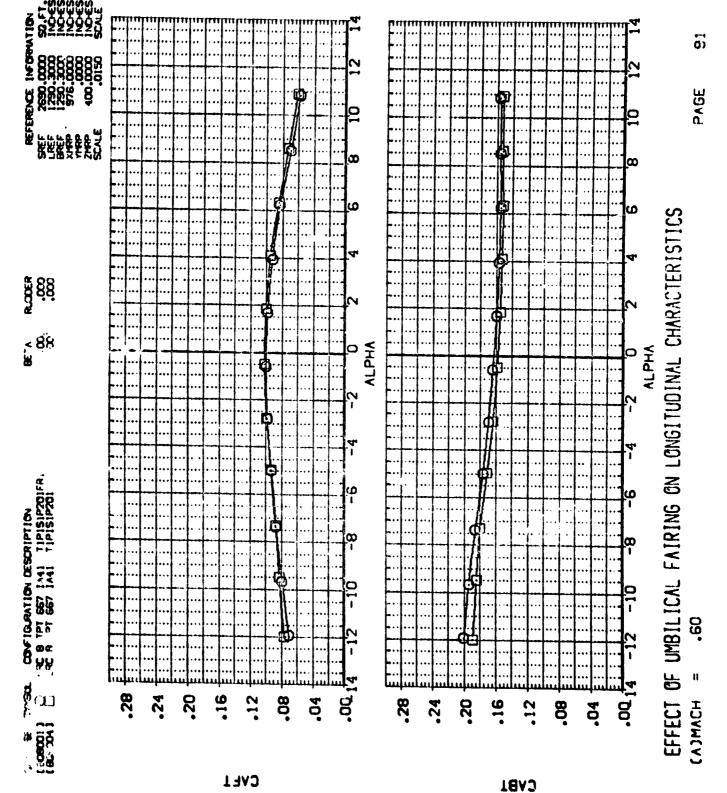


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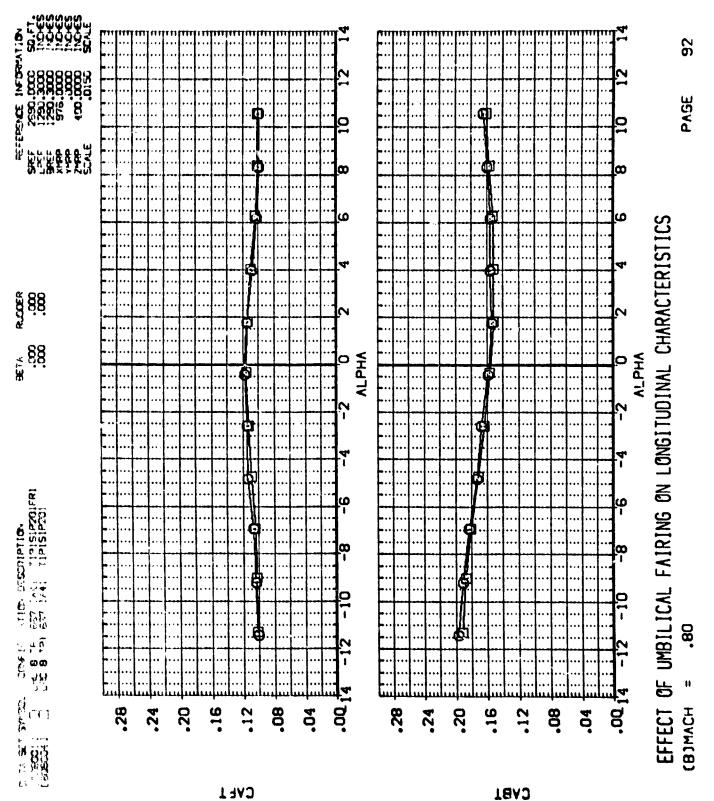




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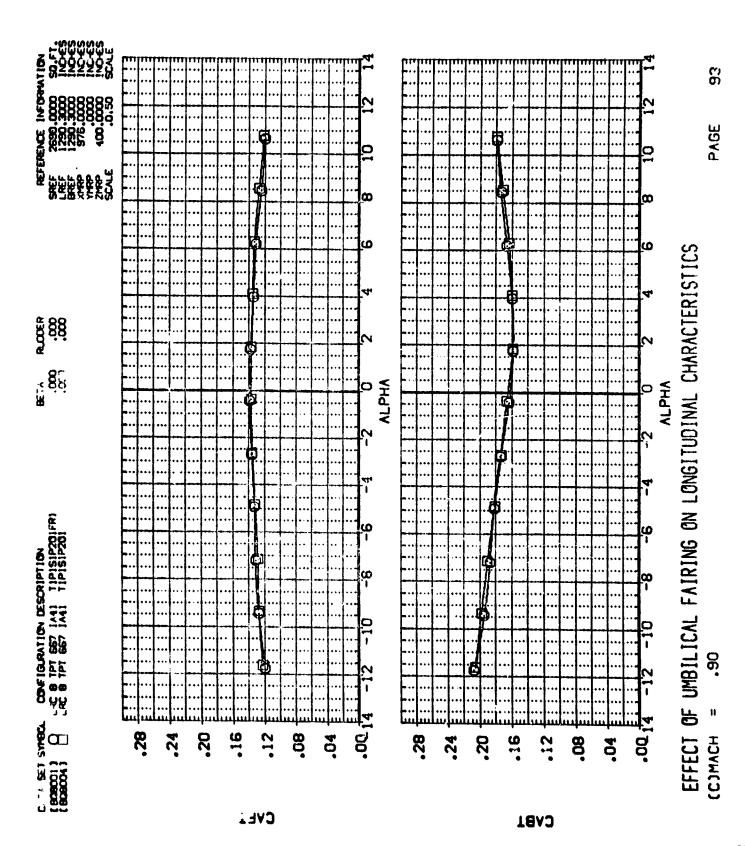


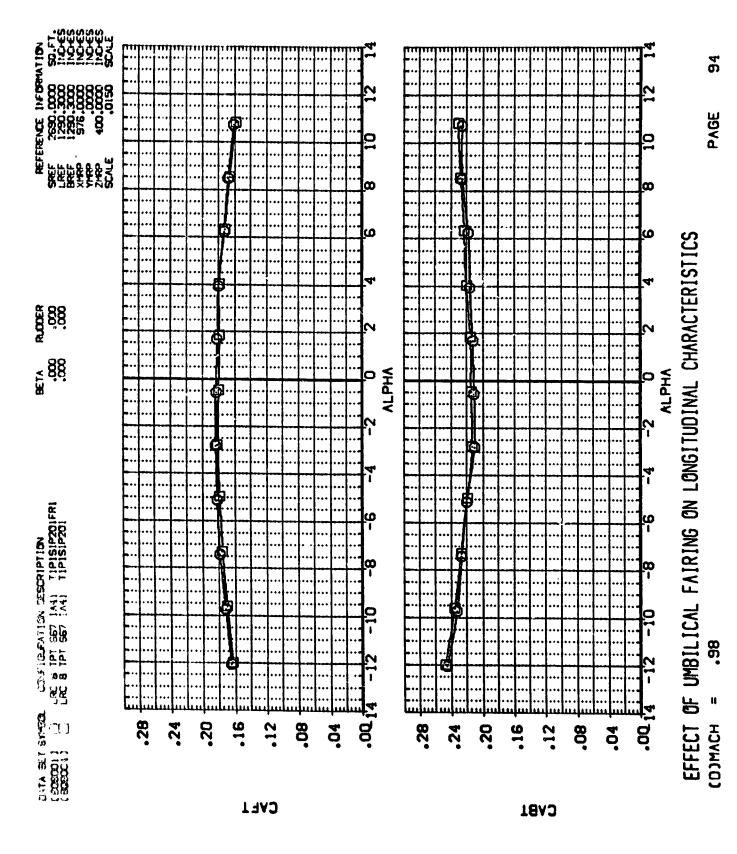


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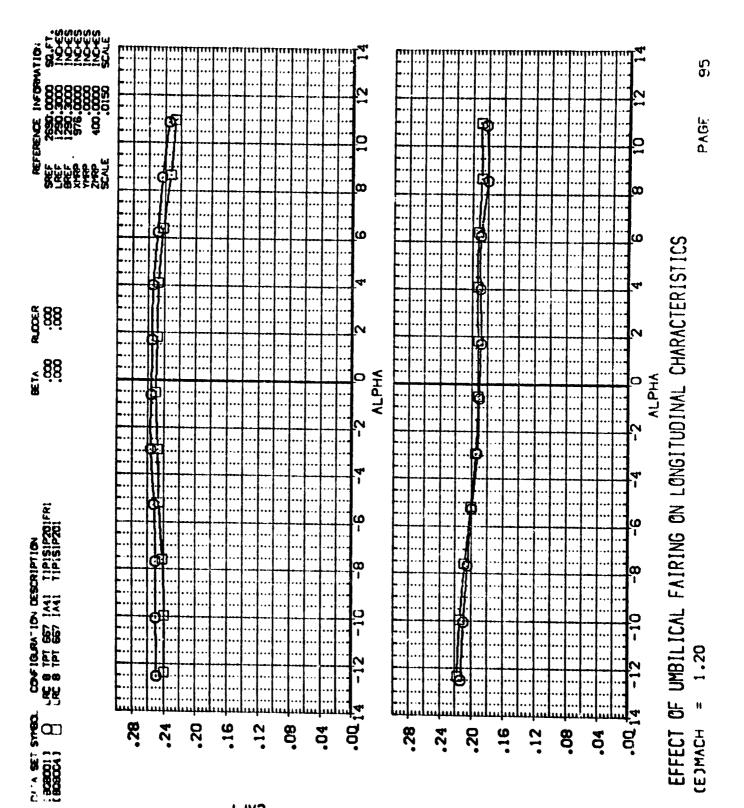
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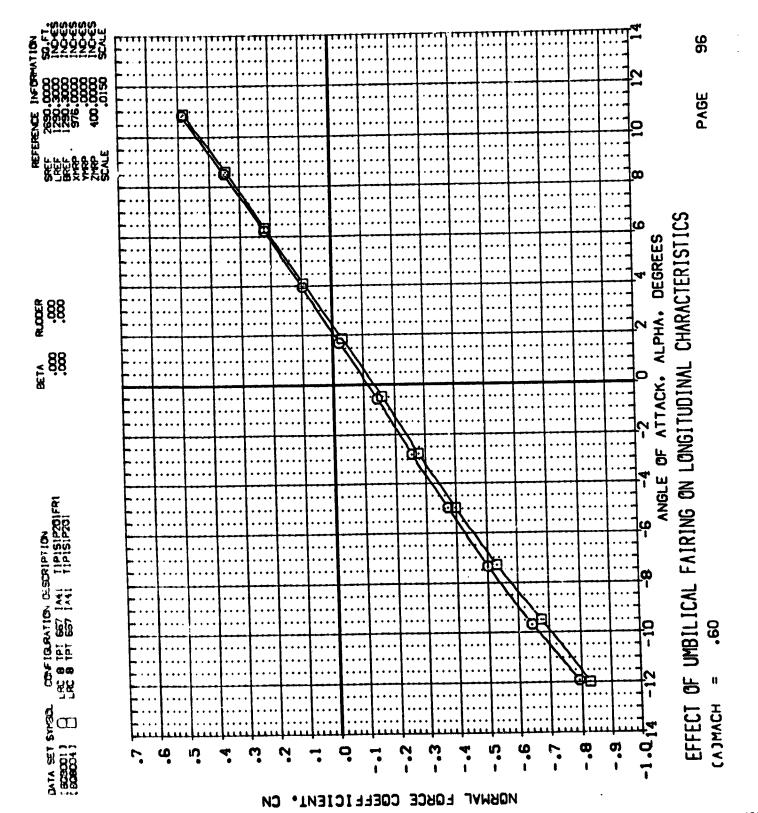




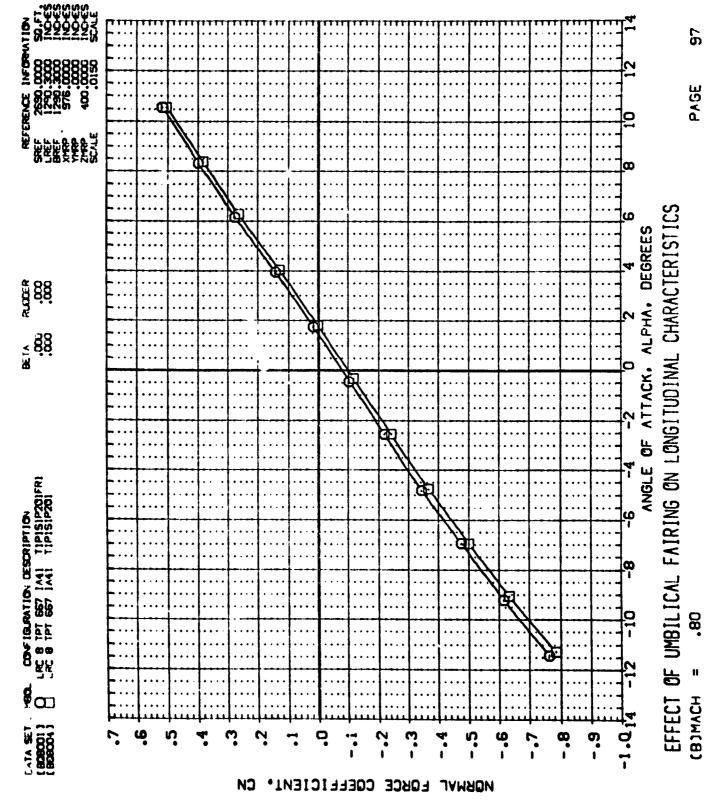


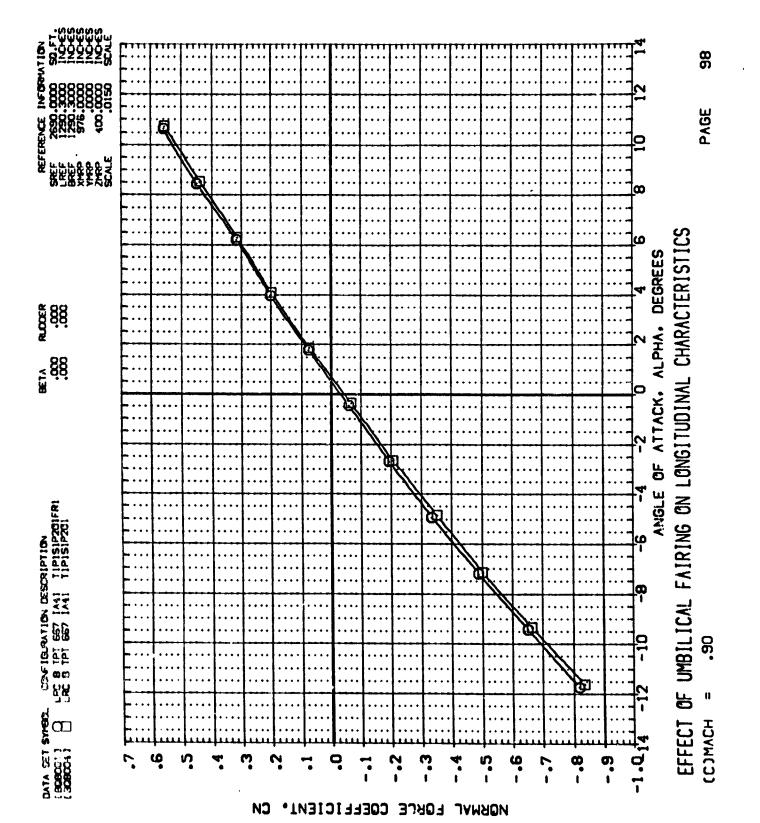
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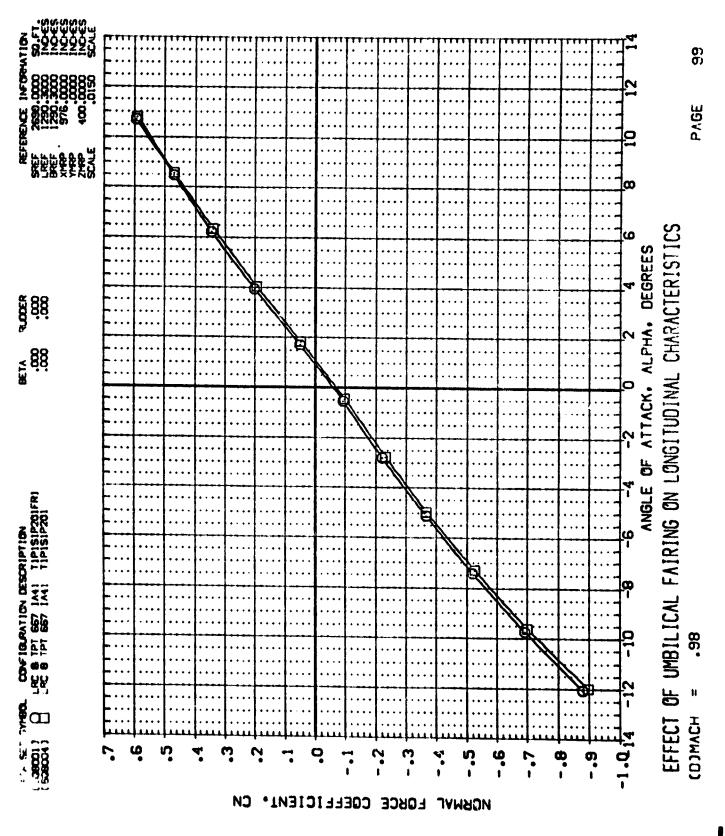


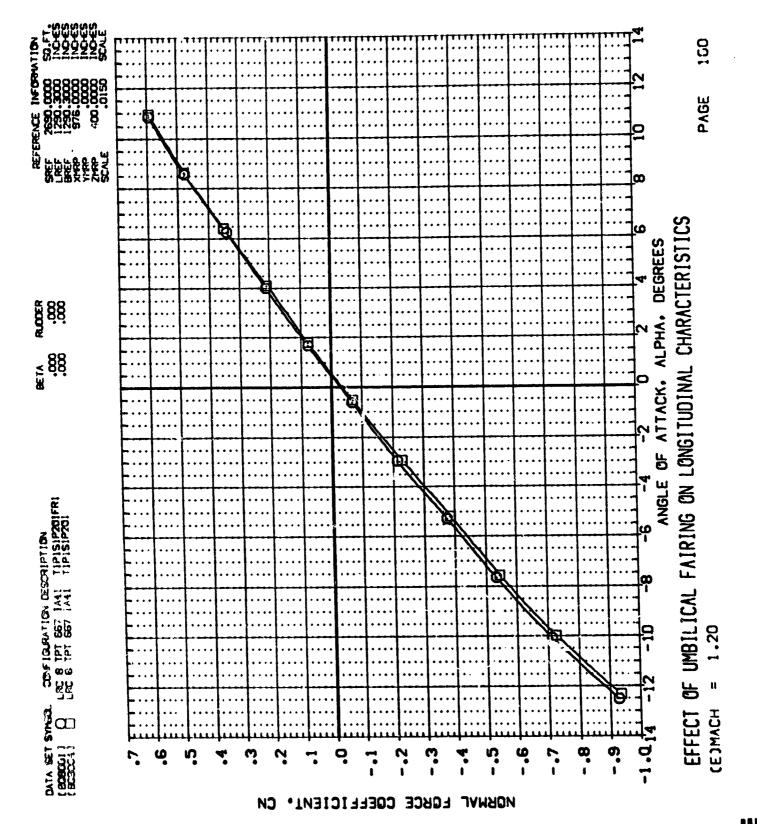




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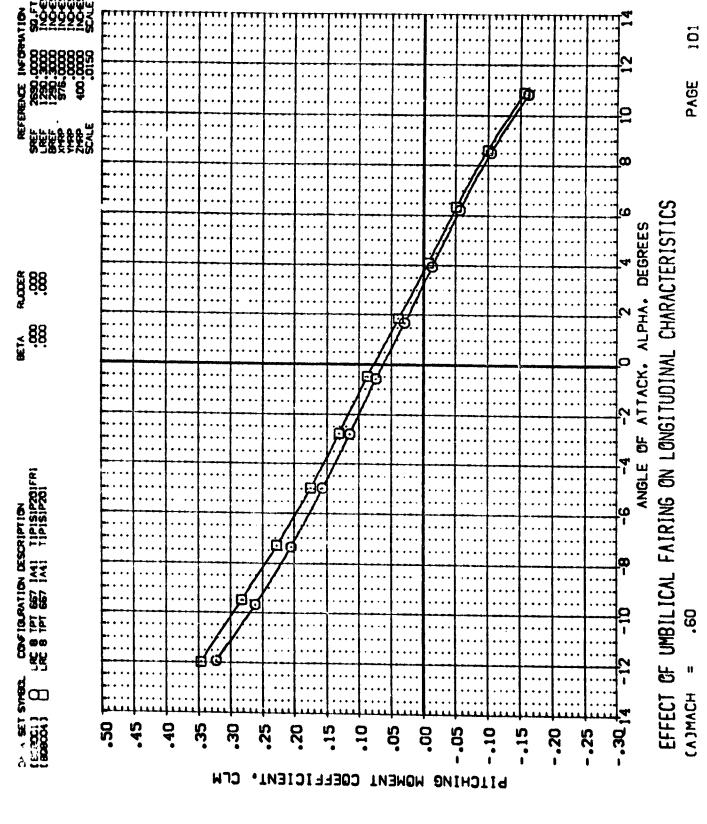


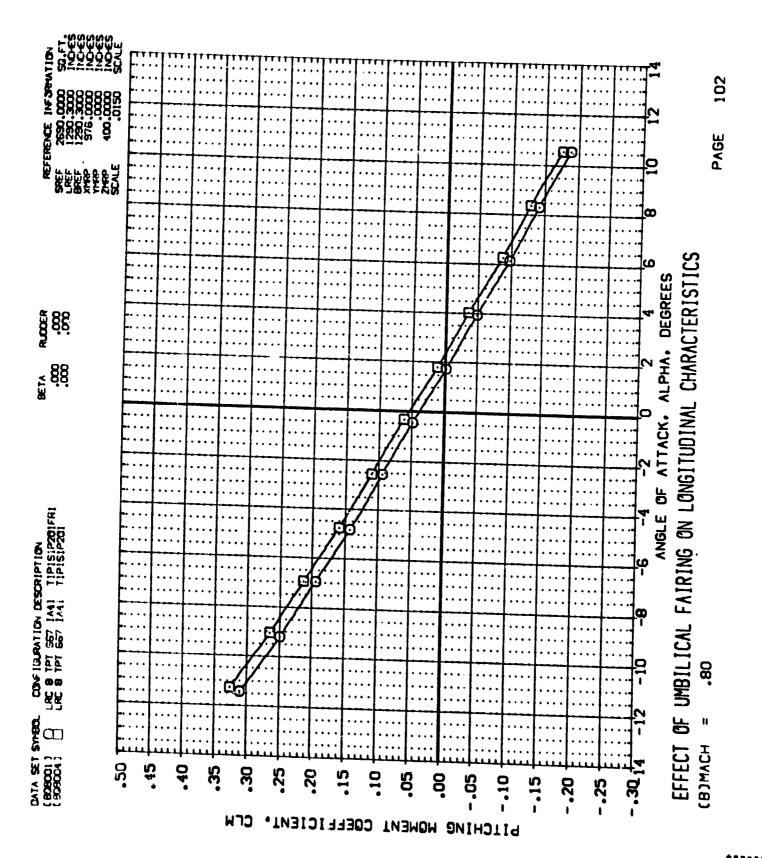




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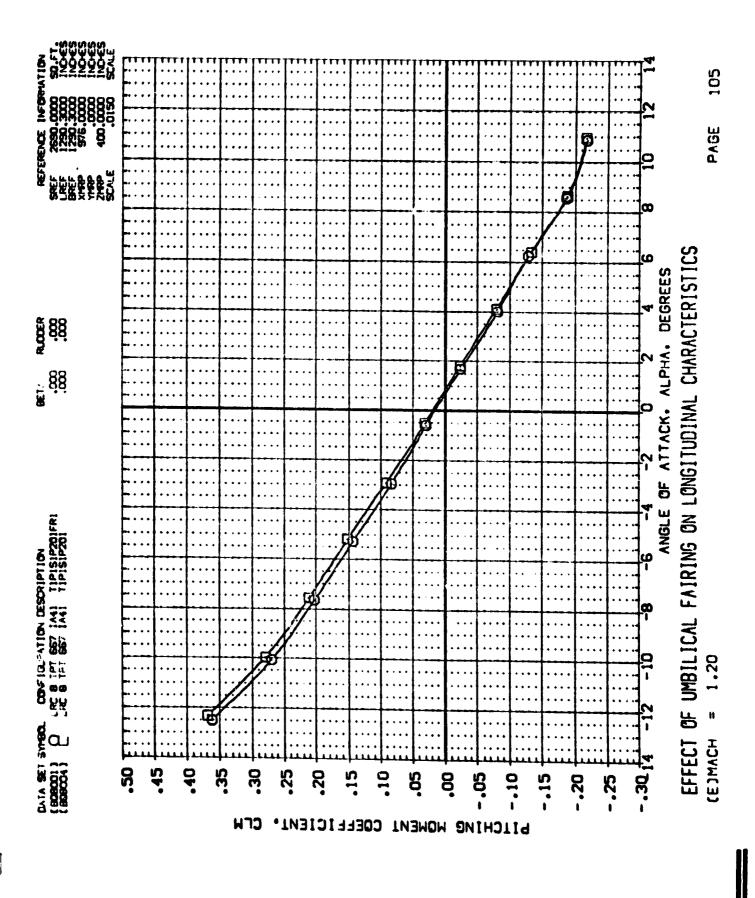
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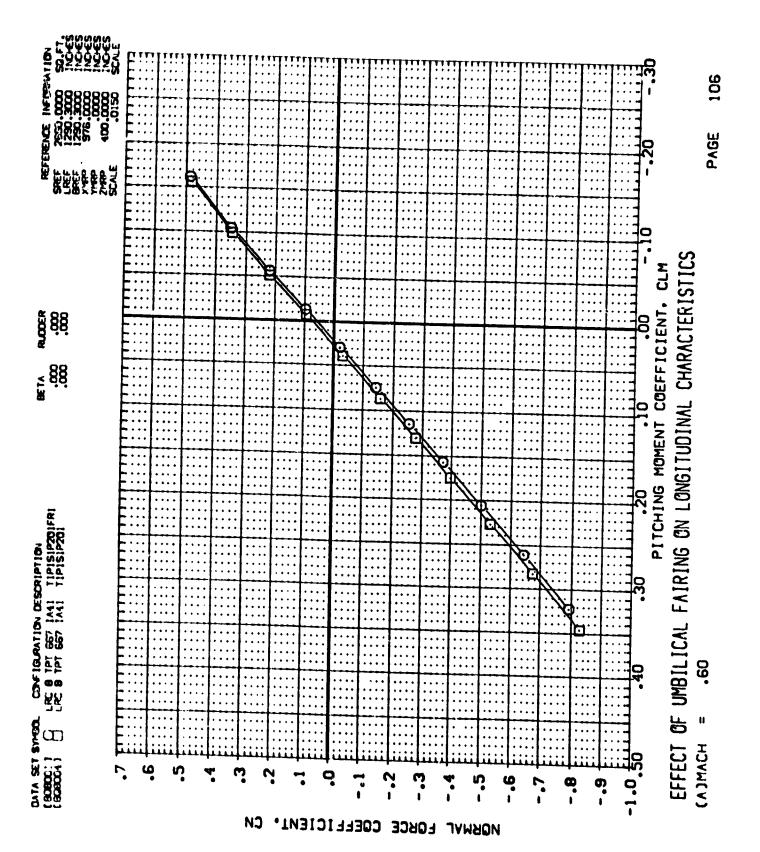
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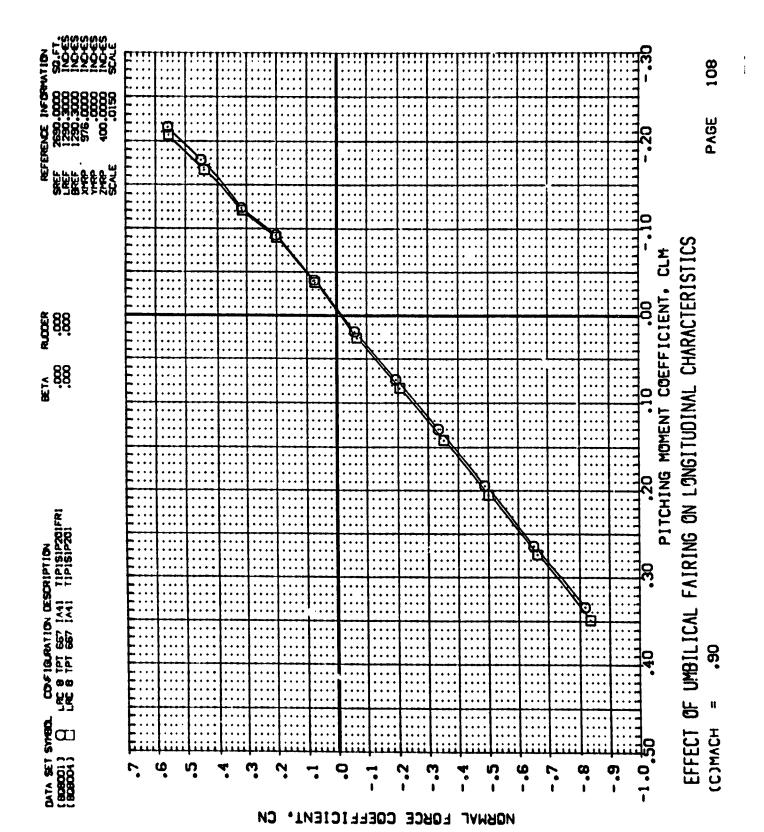




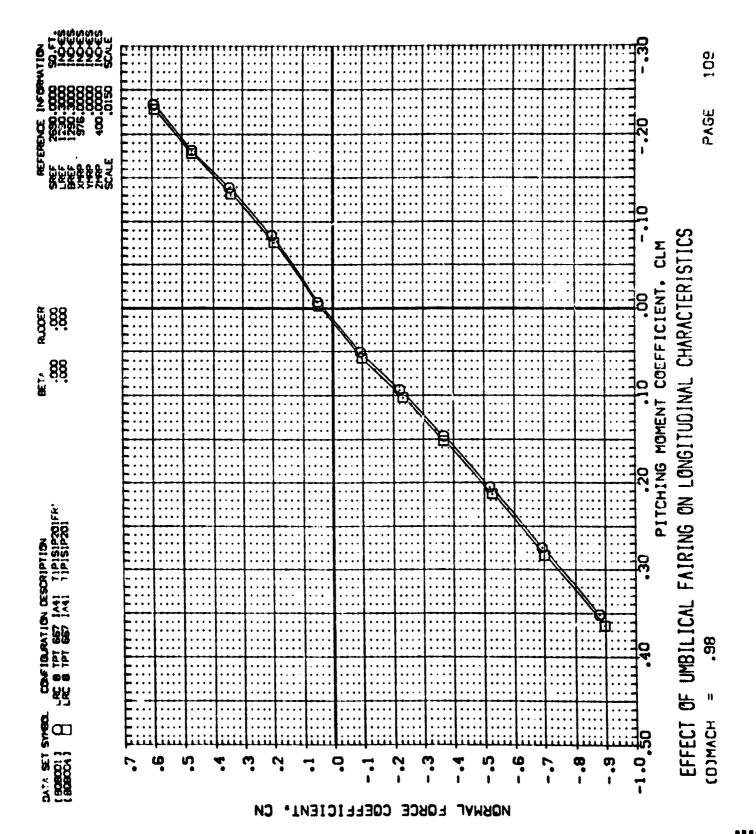


NORMAL FORCE COEFFICIENT, CN



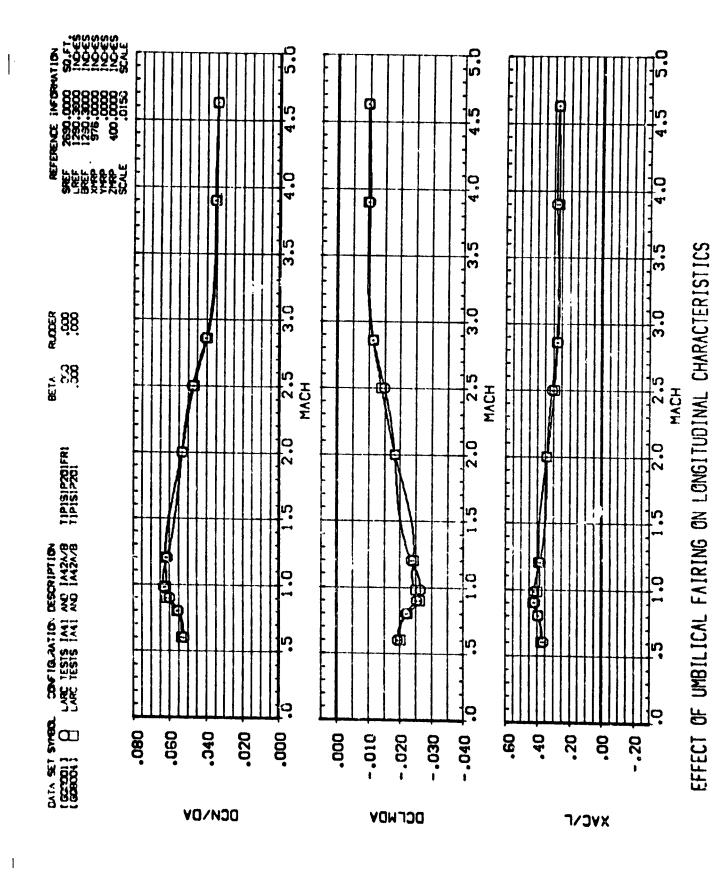


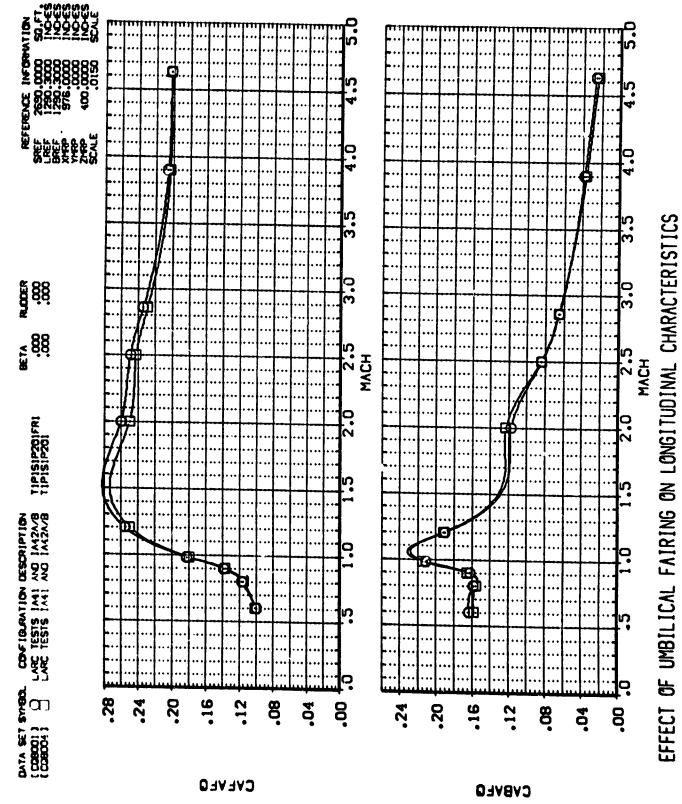




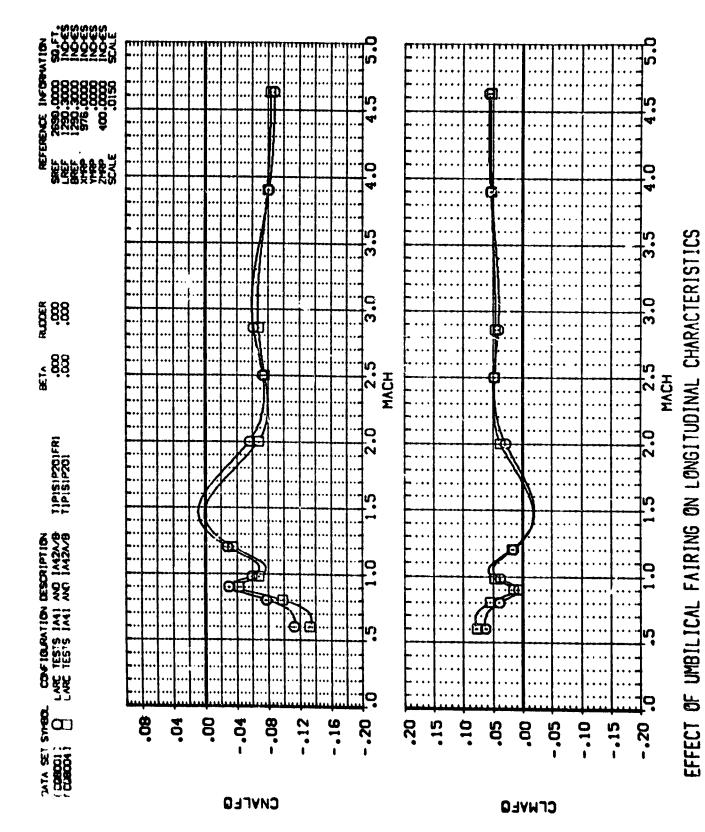
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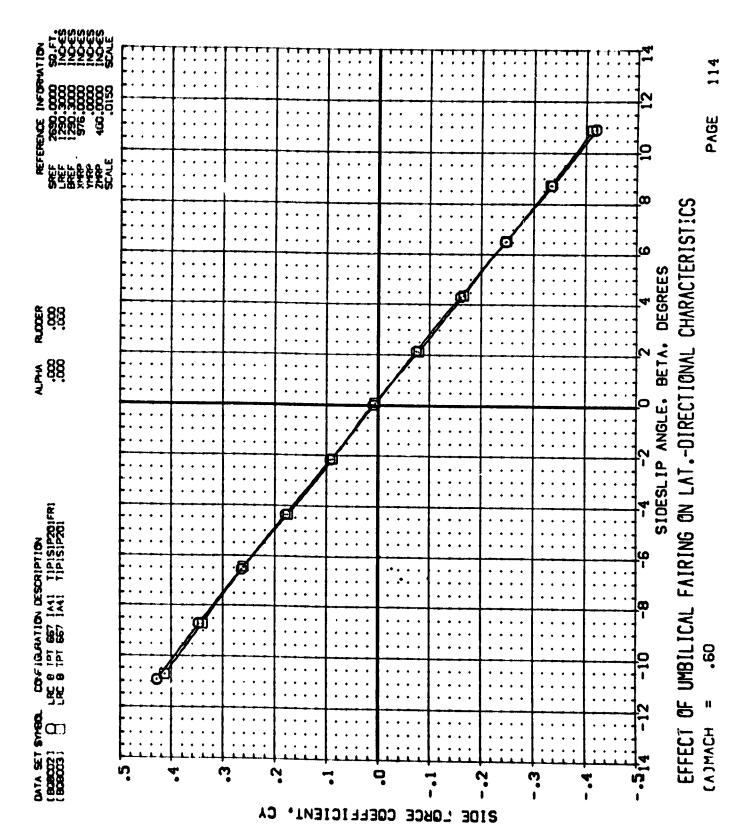




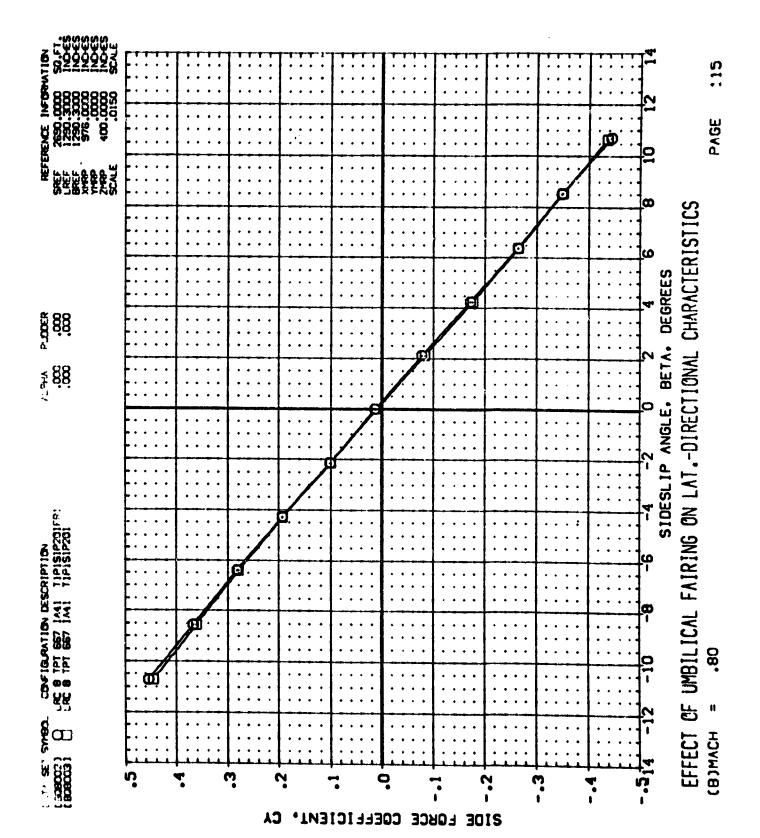






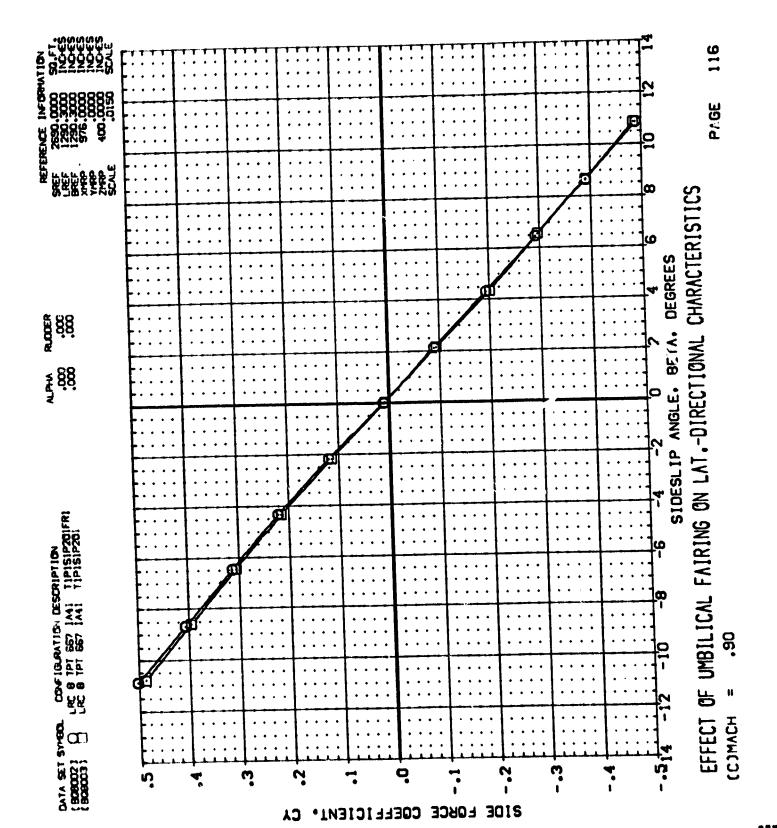






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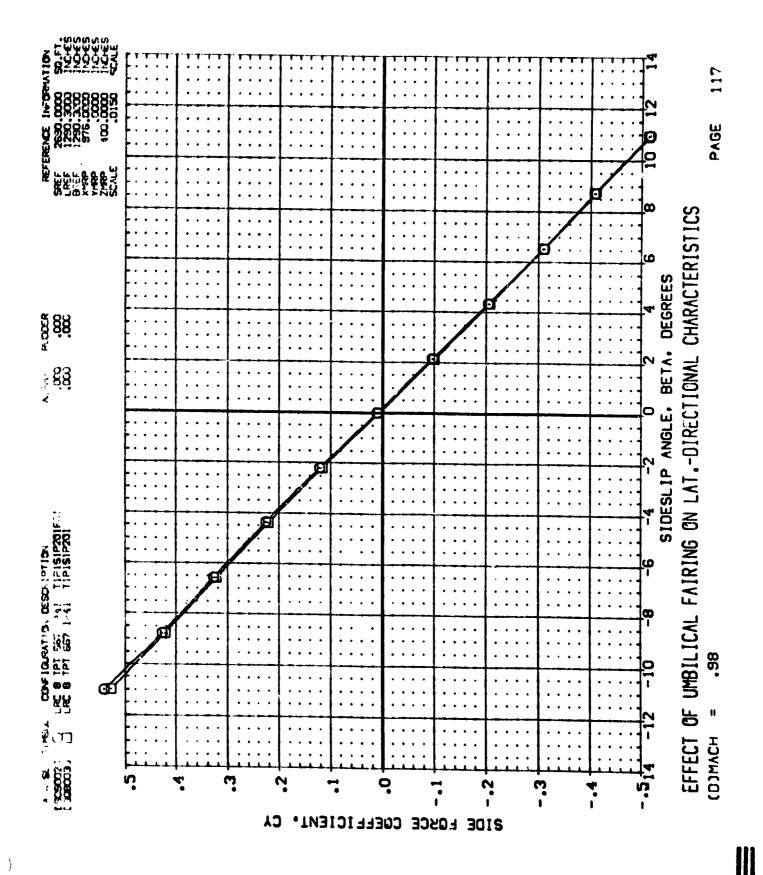


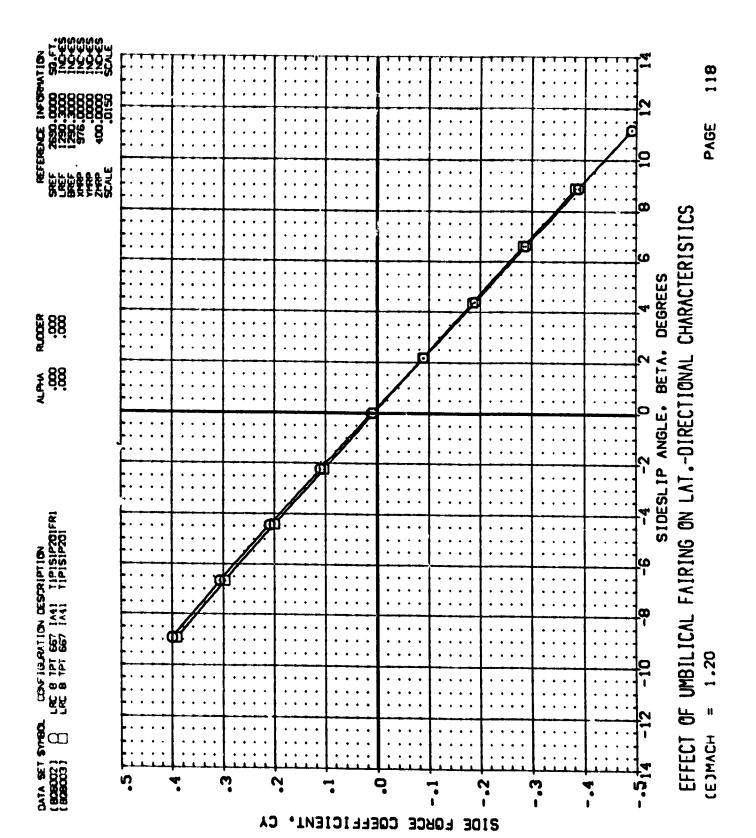
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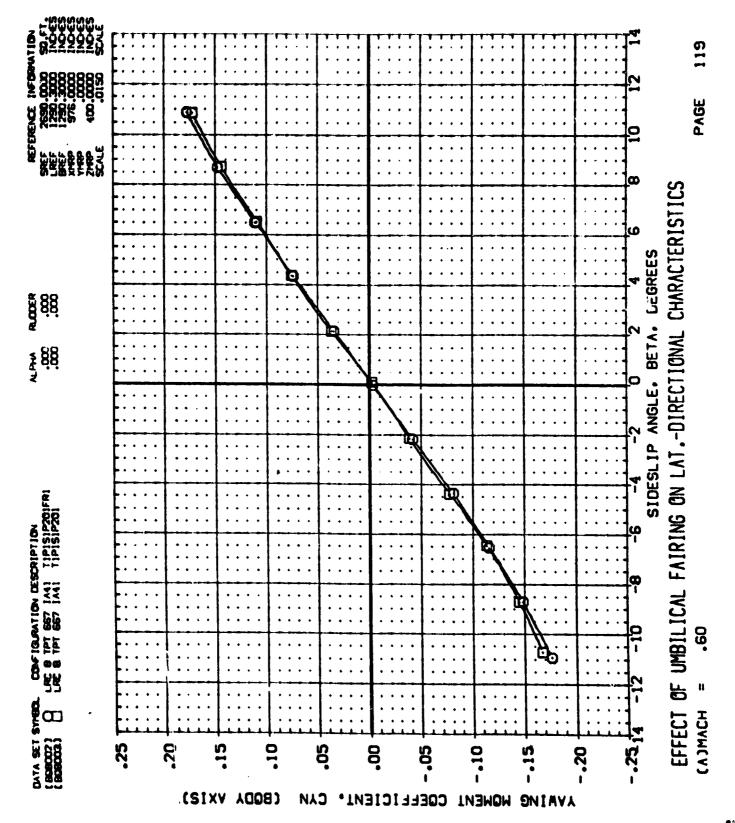


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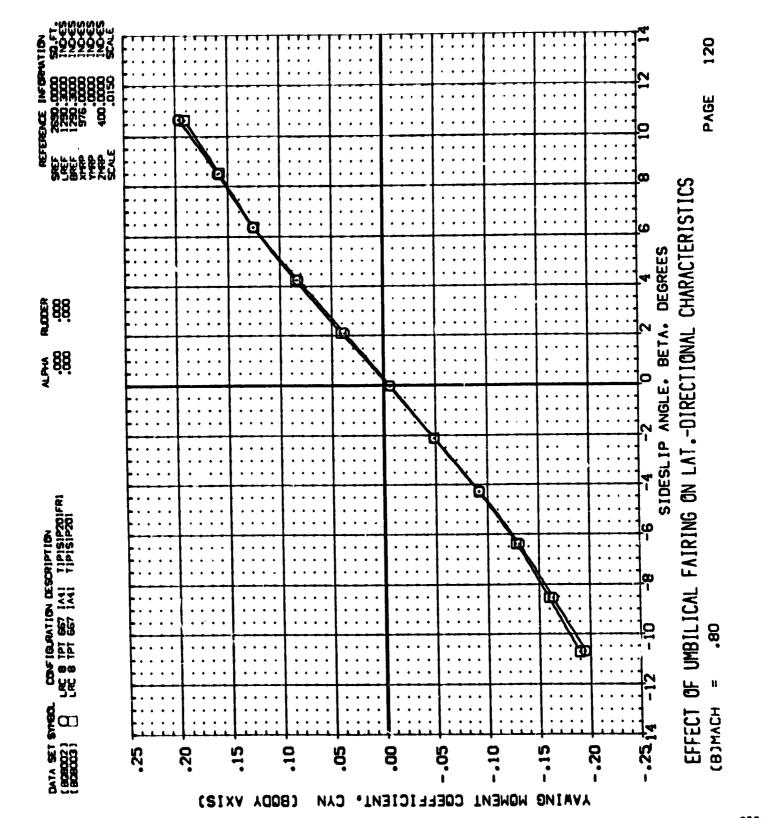
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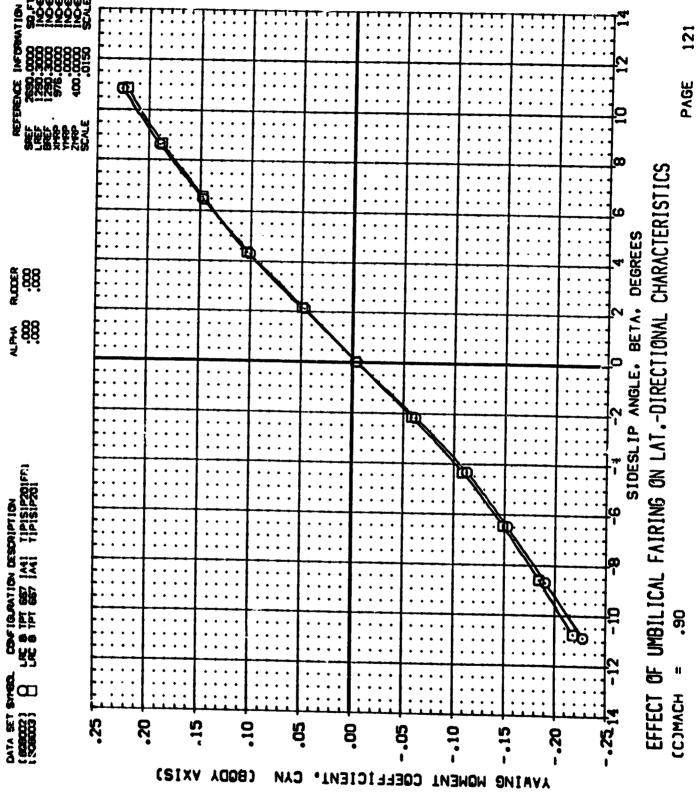
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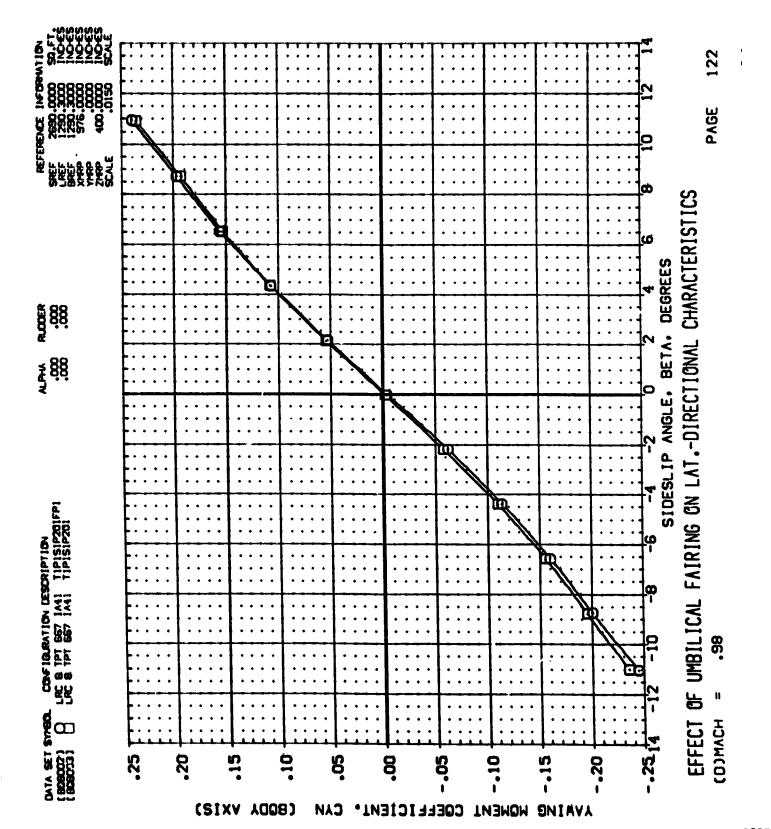


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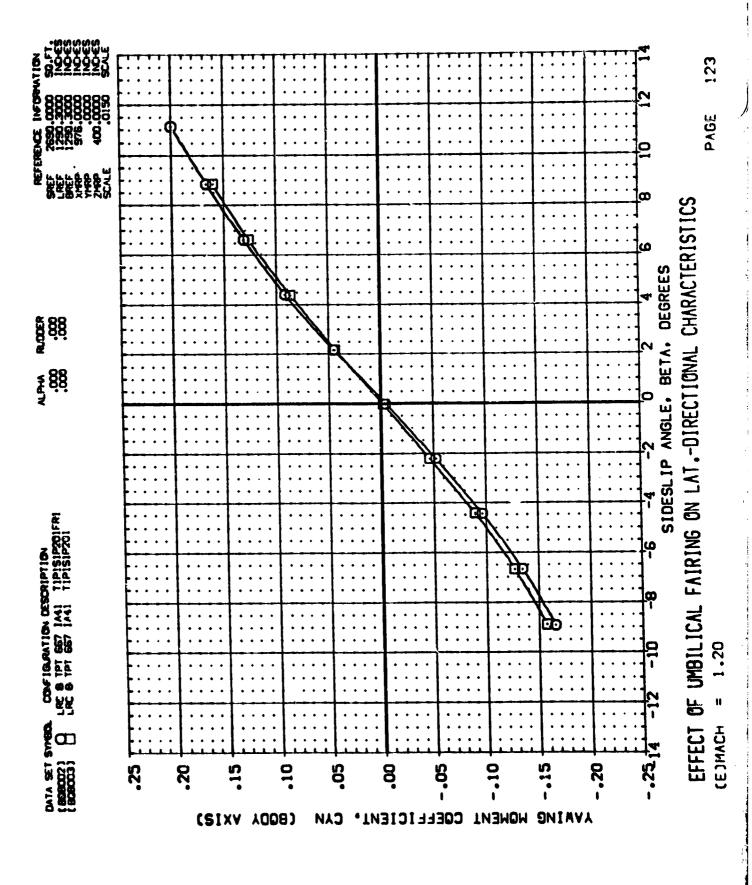


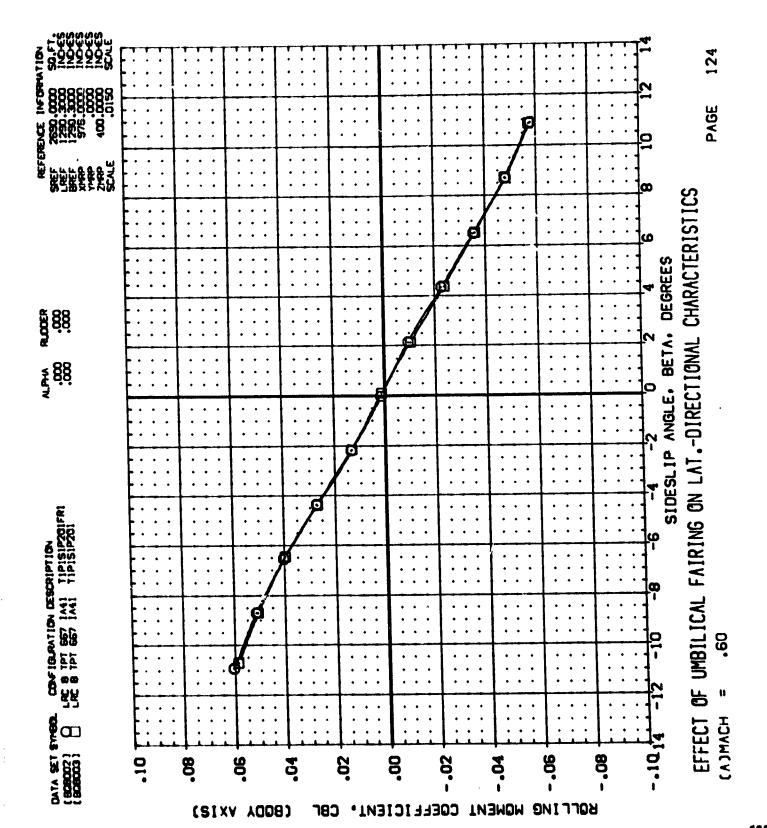


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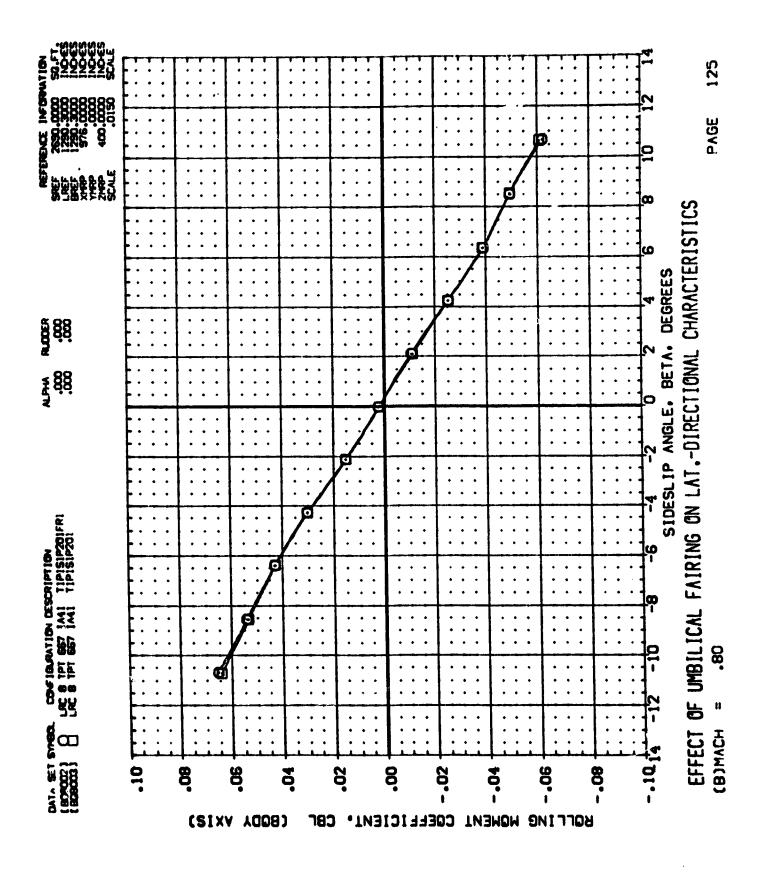


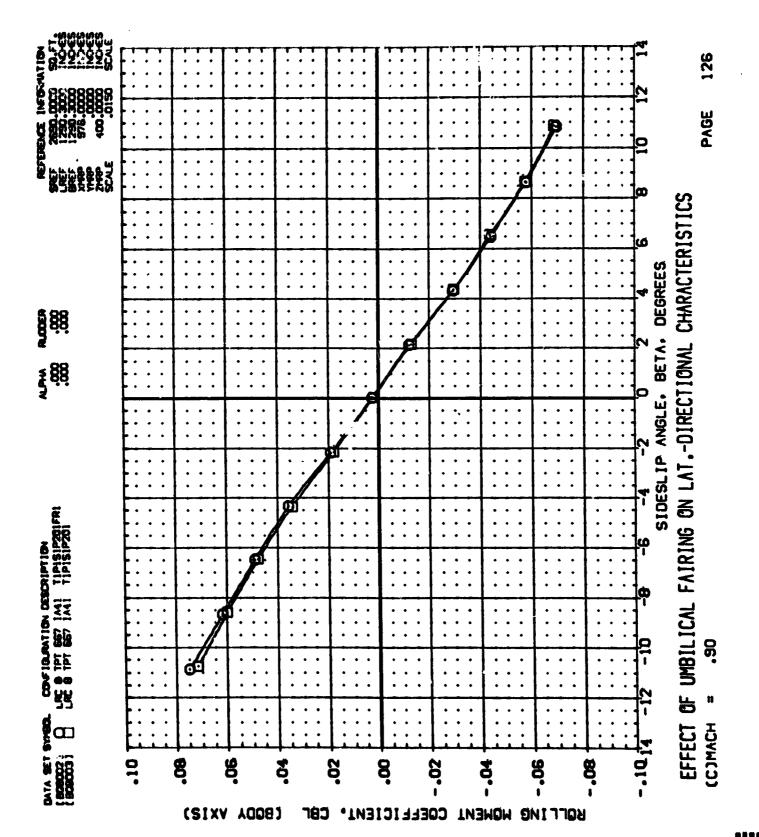






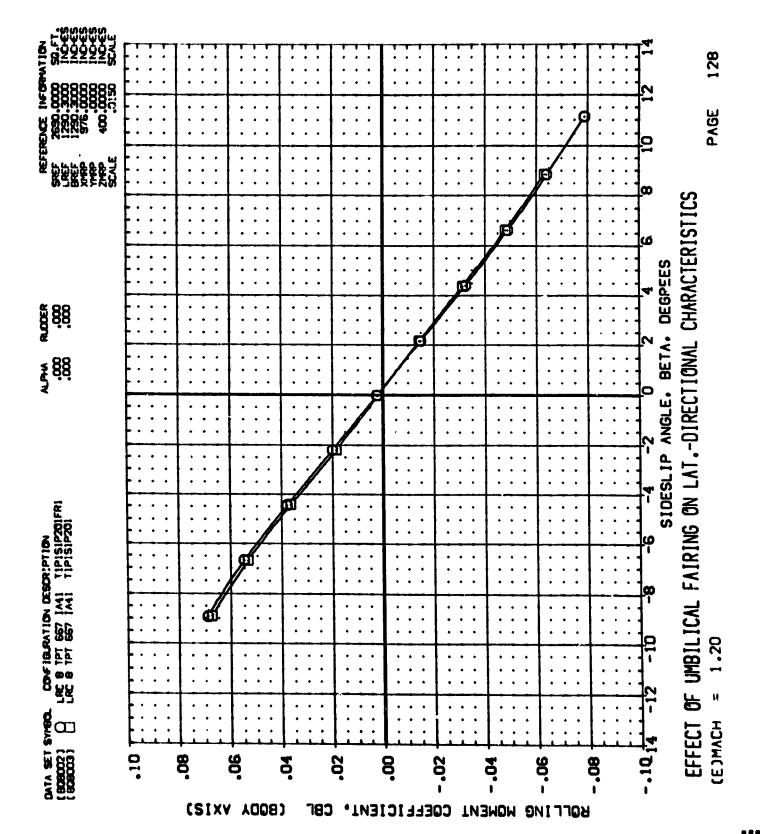




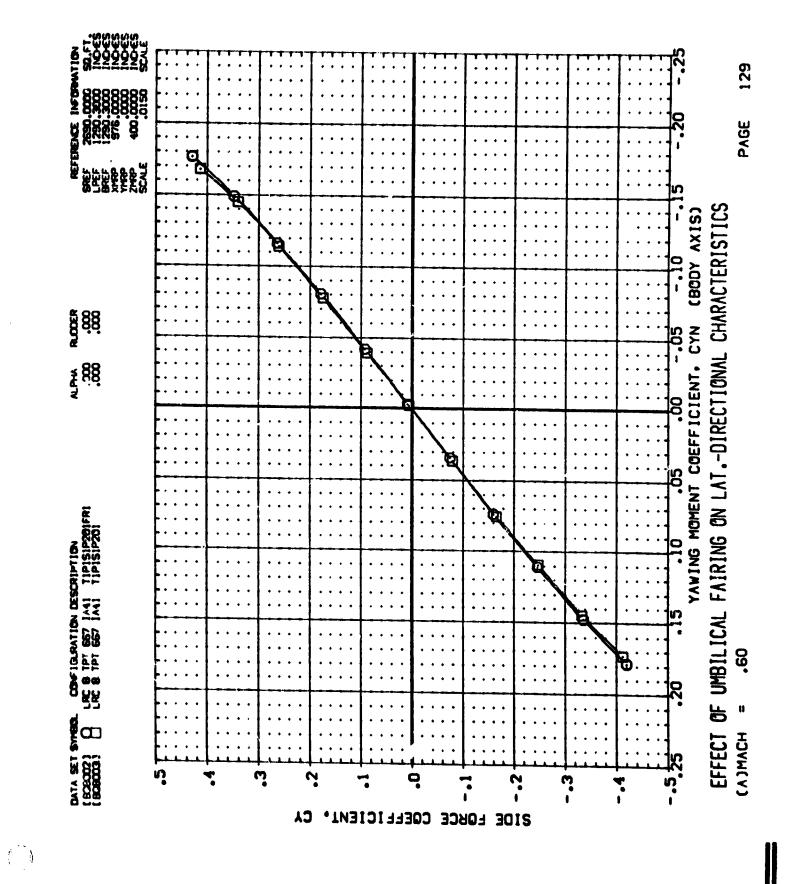




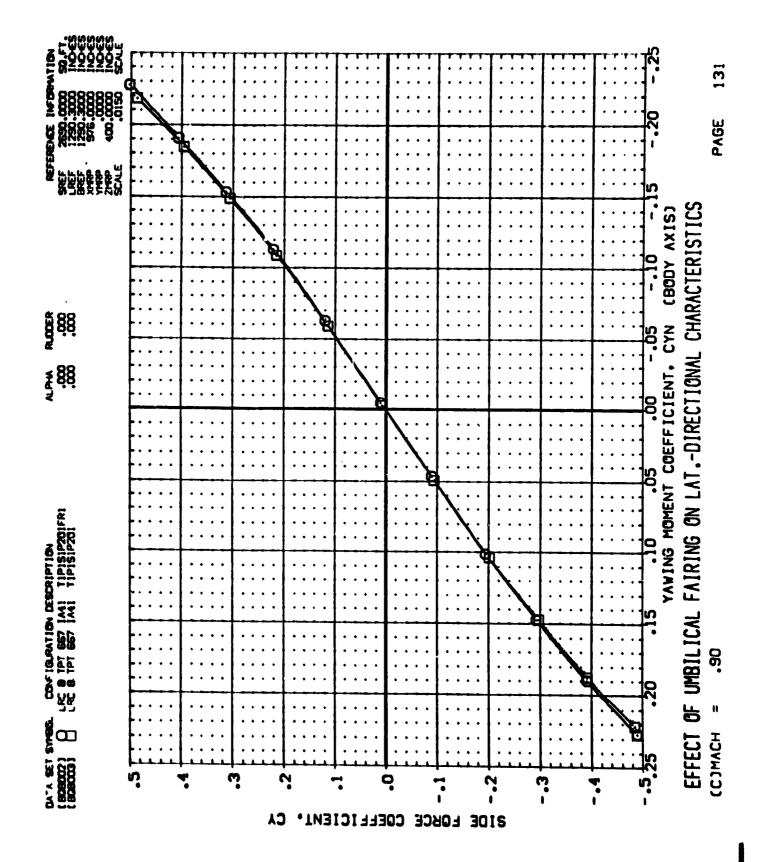
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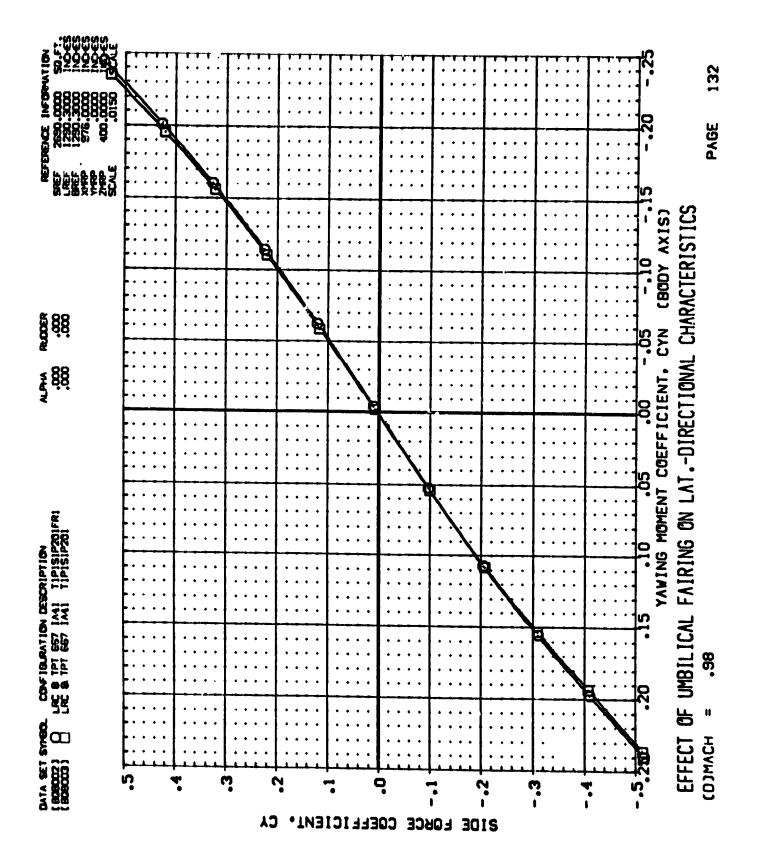




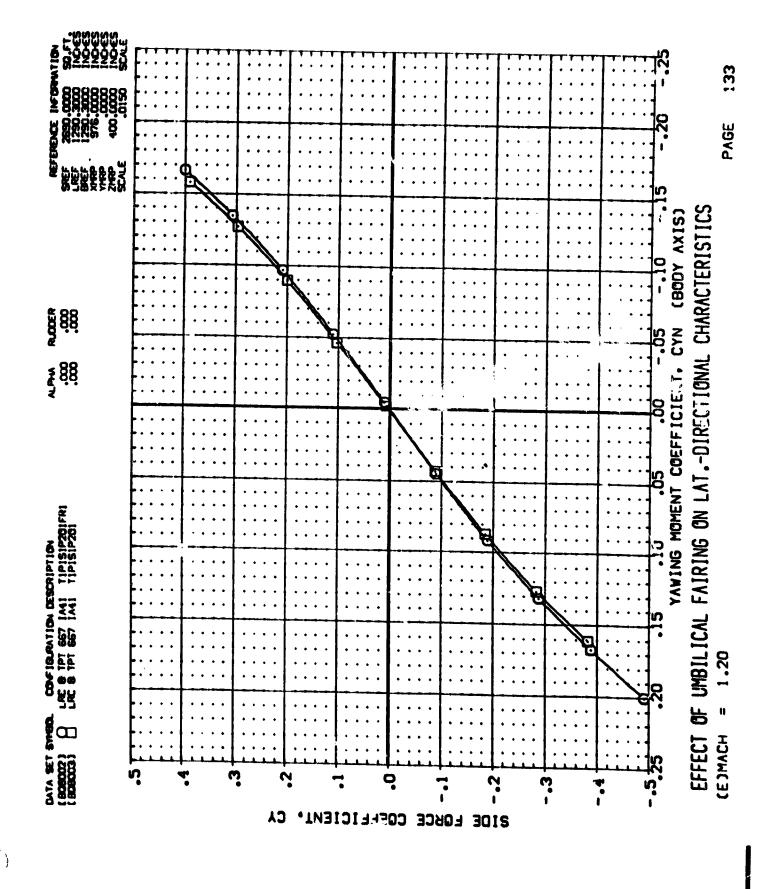




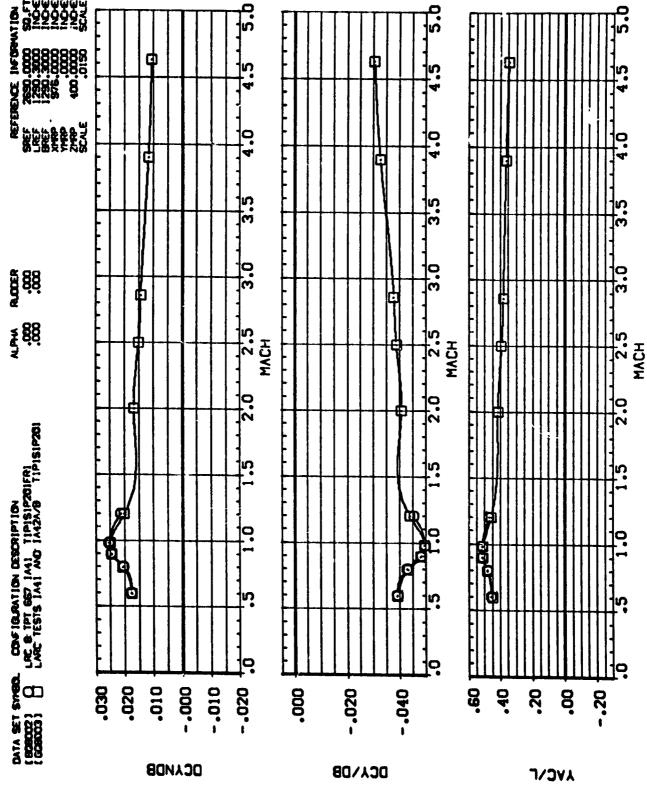




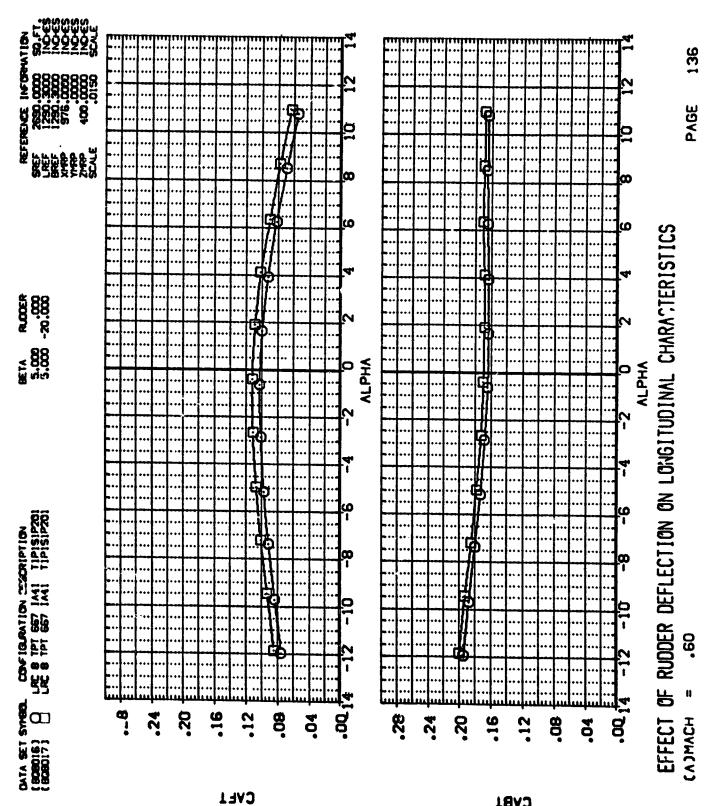




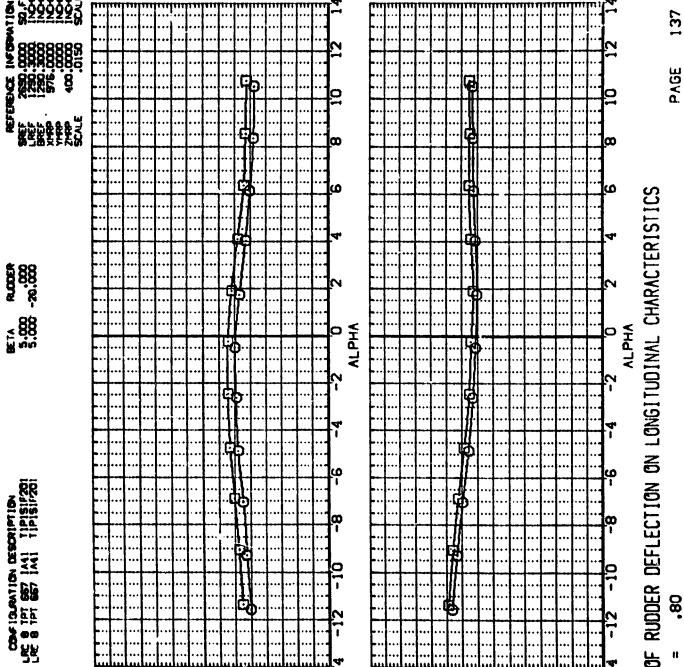




EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECTIONAL CHARACTERISTICS



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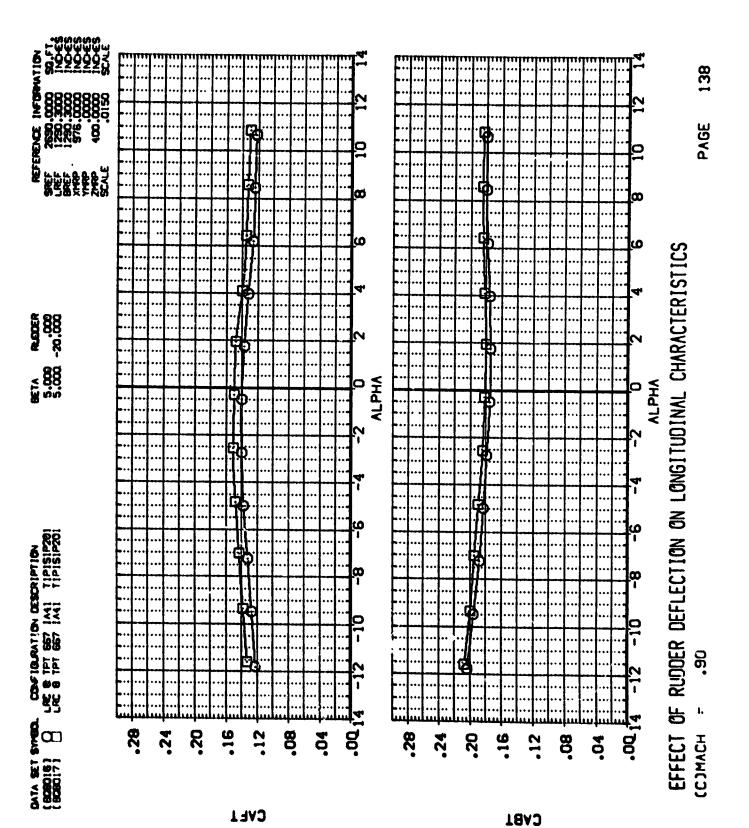
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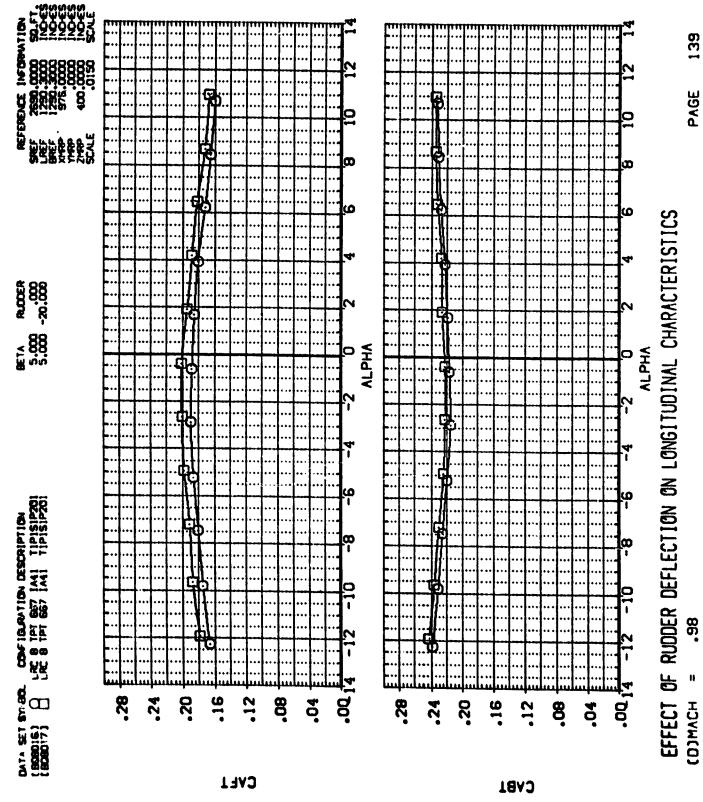
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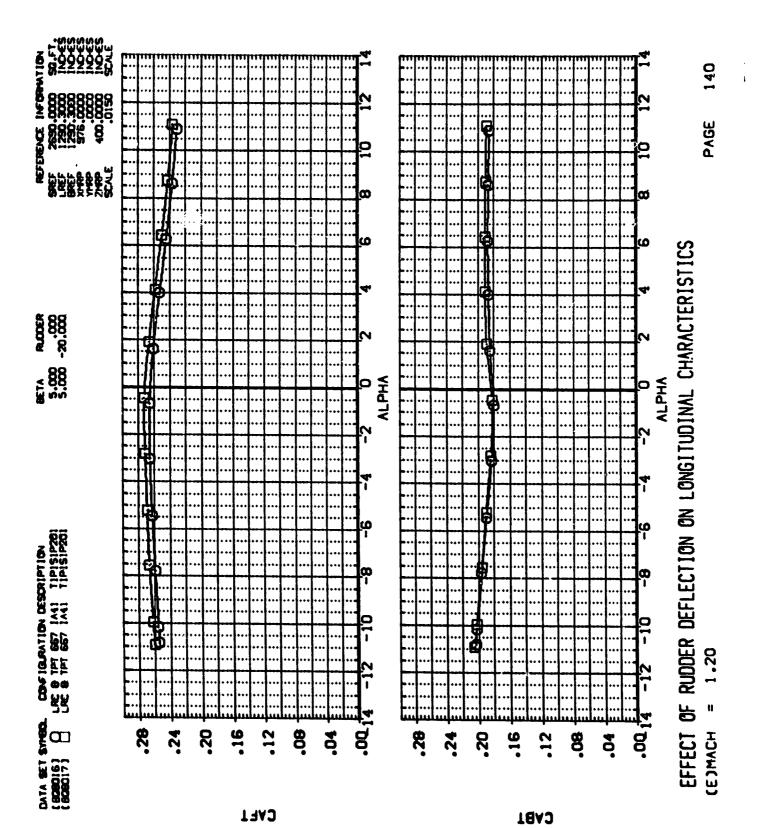
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS (B)MACH



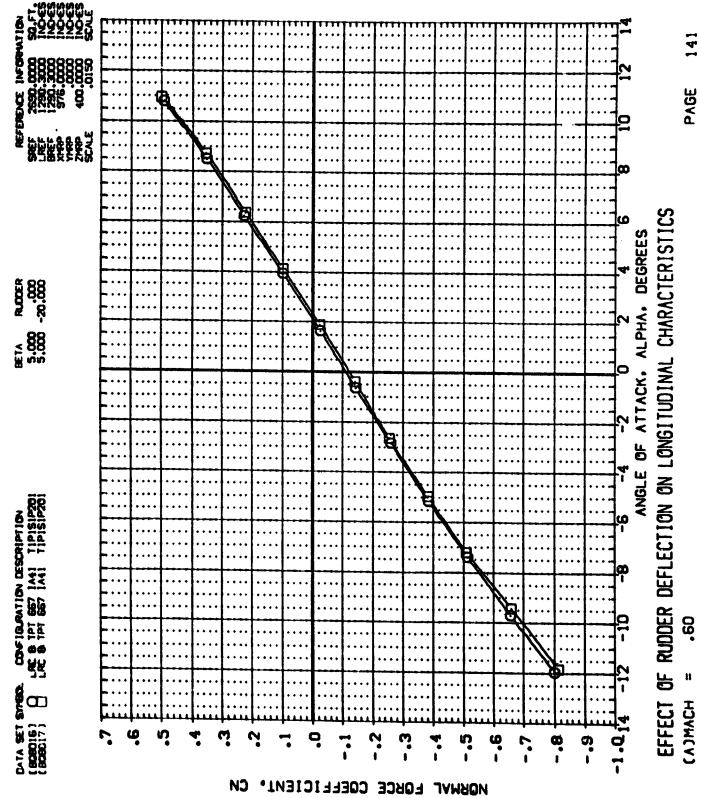




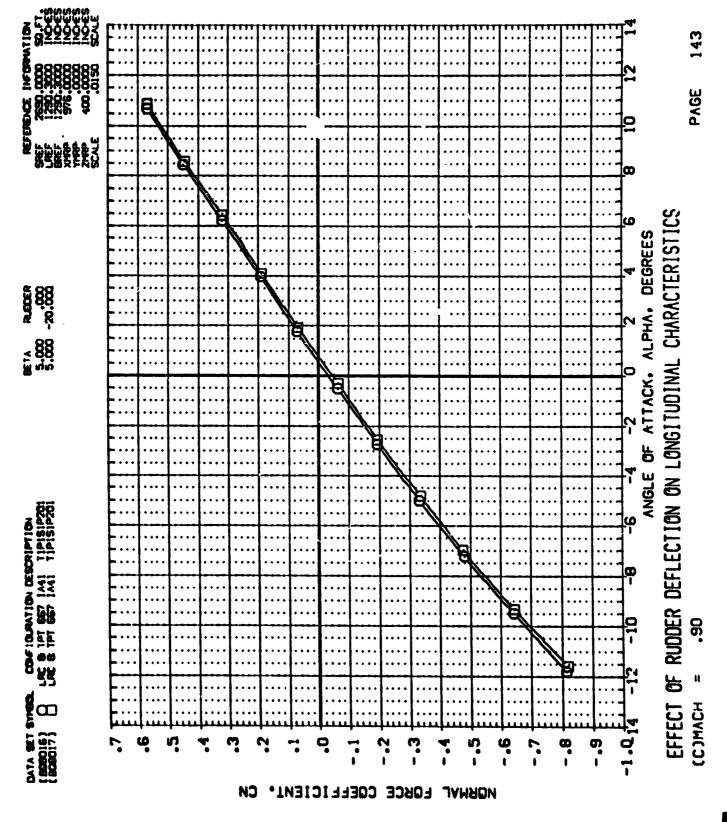


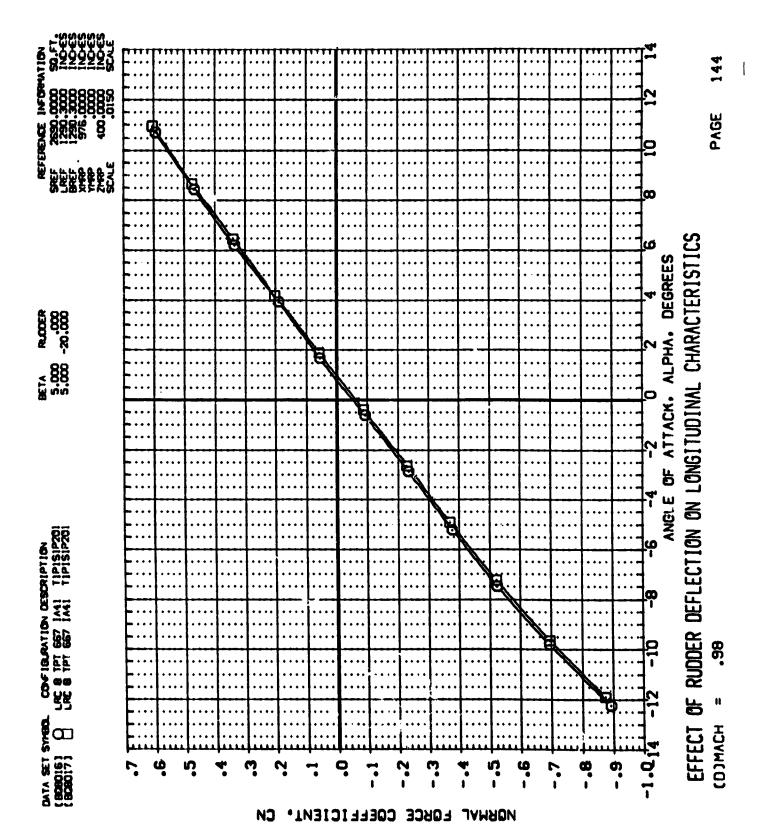








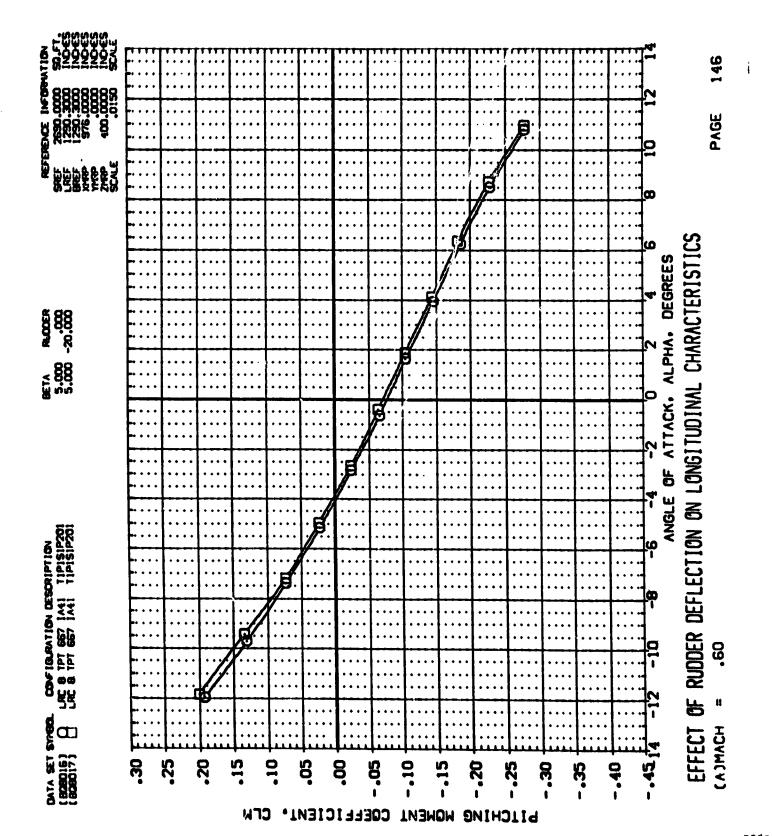






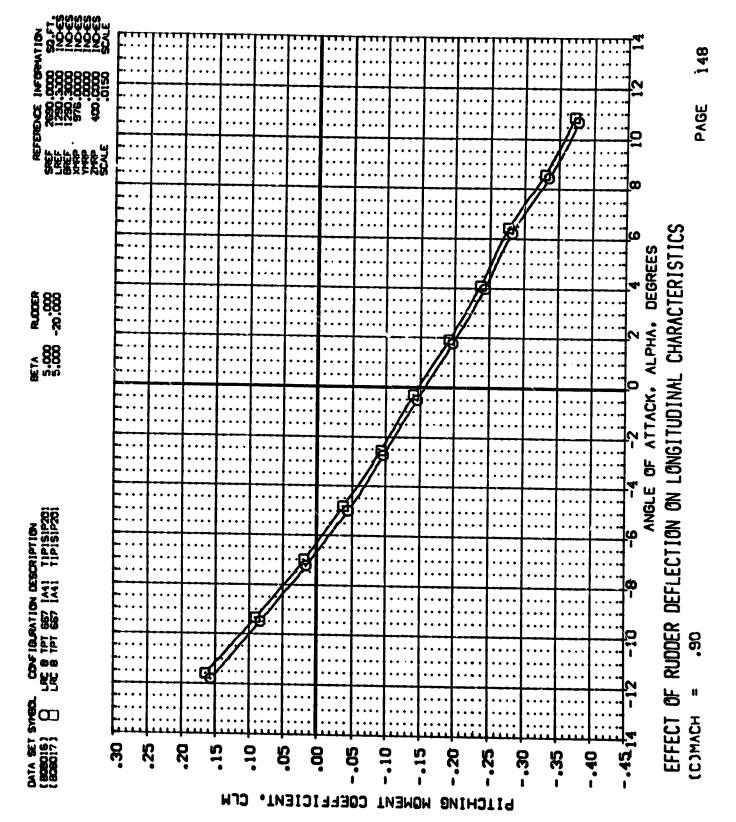
NORMAL FORCE COEFFICIENT, CN

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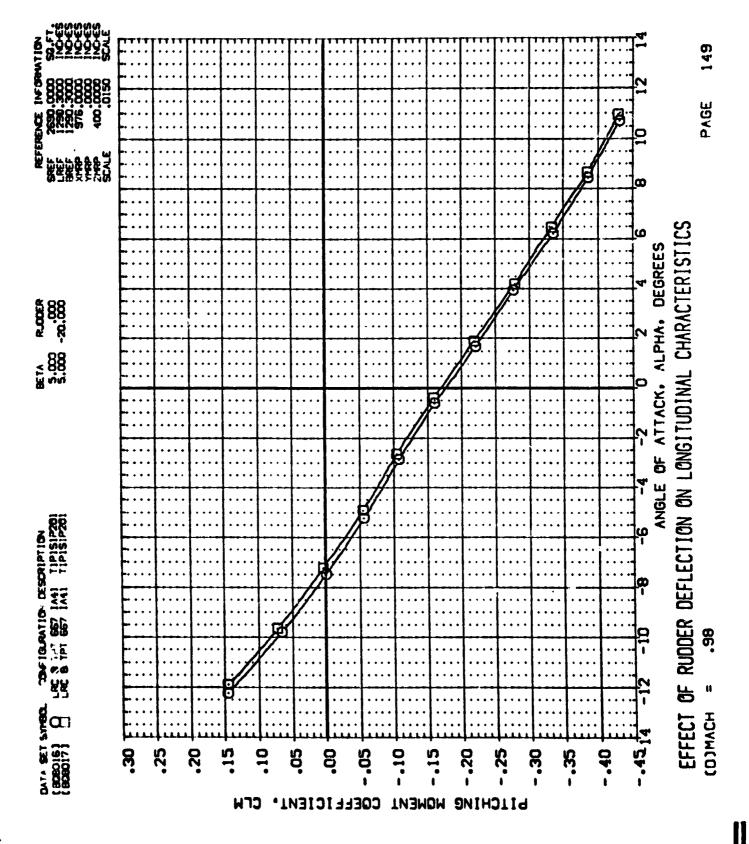


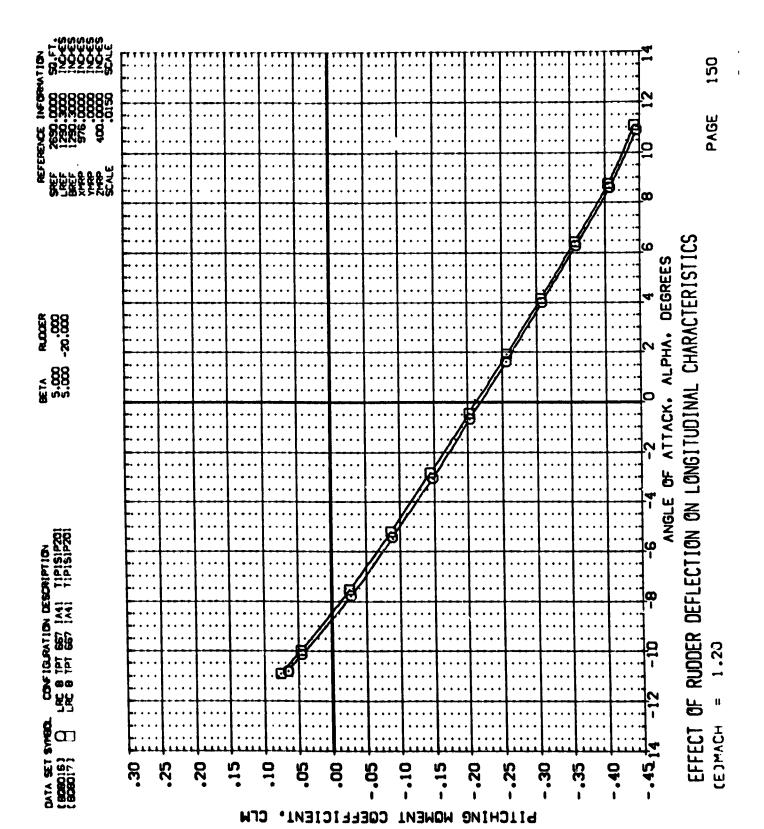


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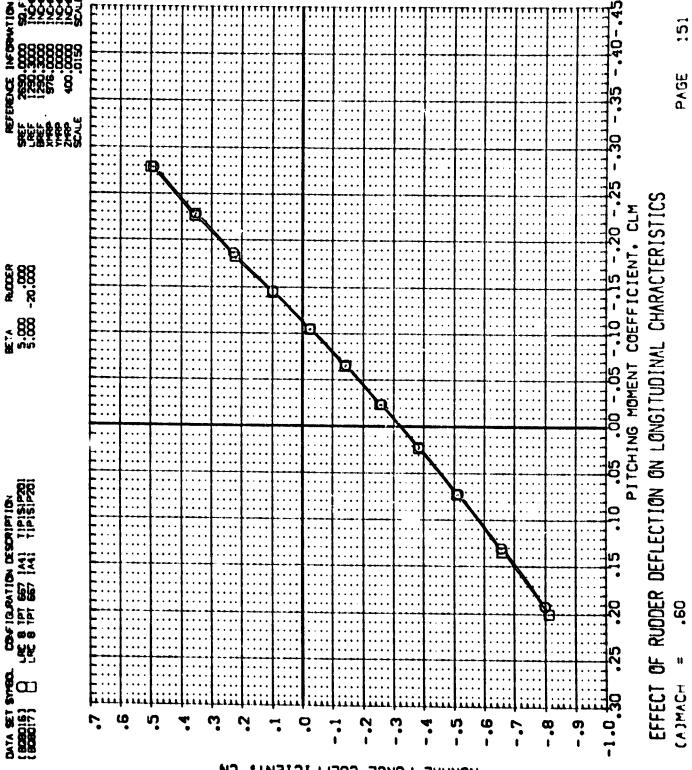






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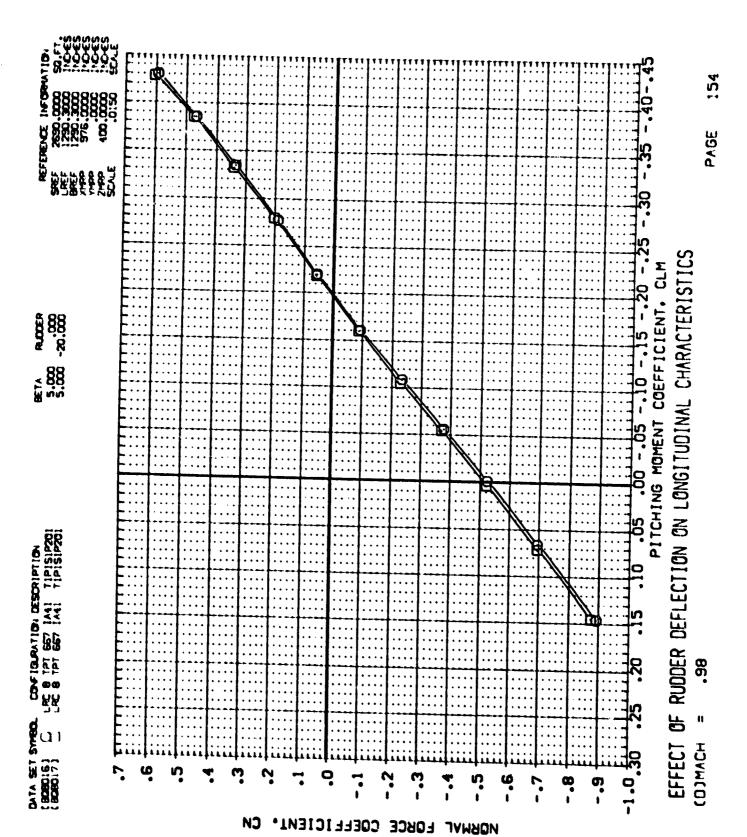


NORMAL FORCE COEFFICIENT, CM

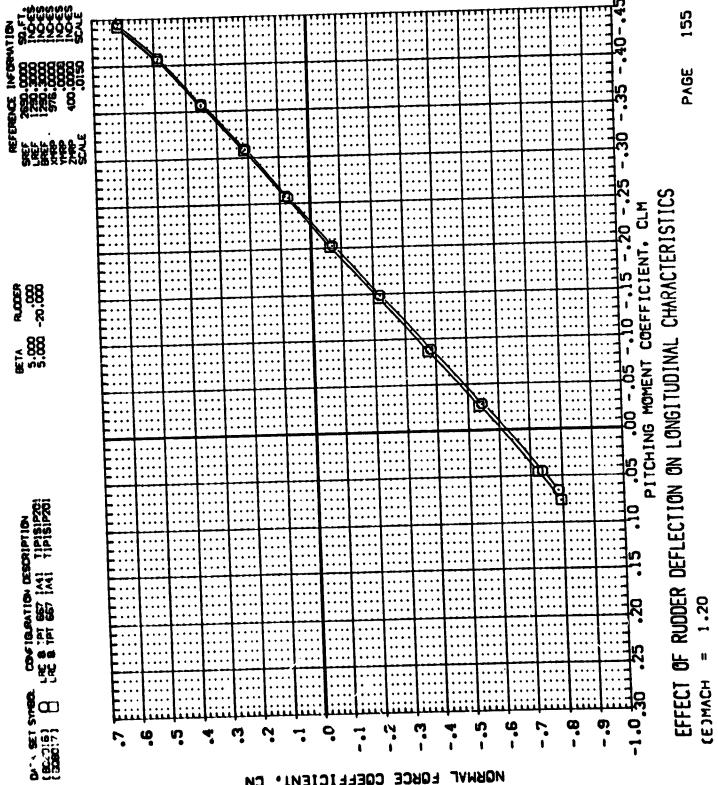
NORMAL FORCE COEFFICIENT, CN



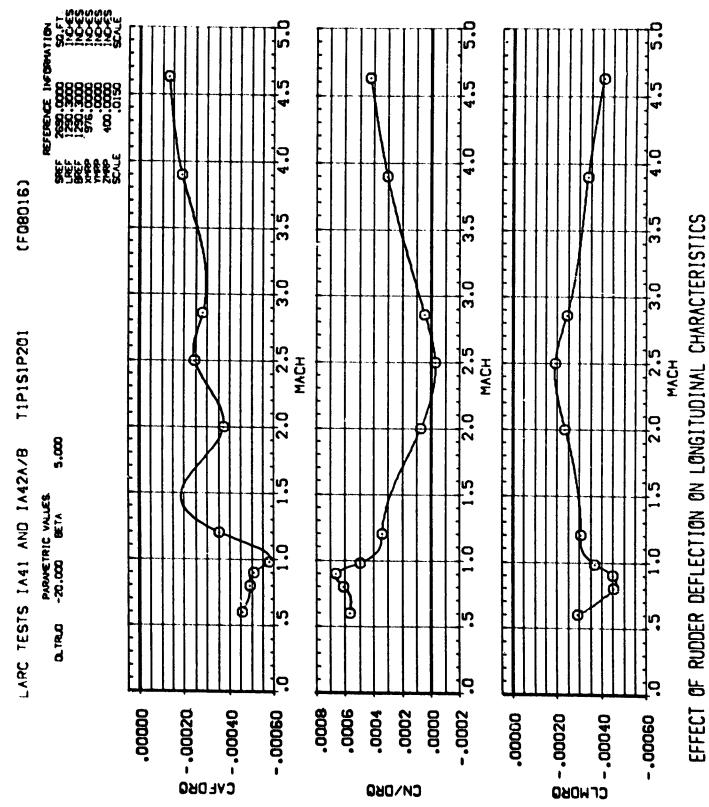
CM



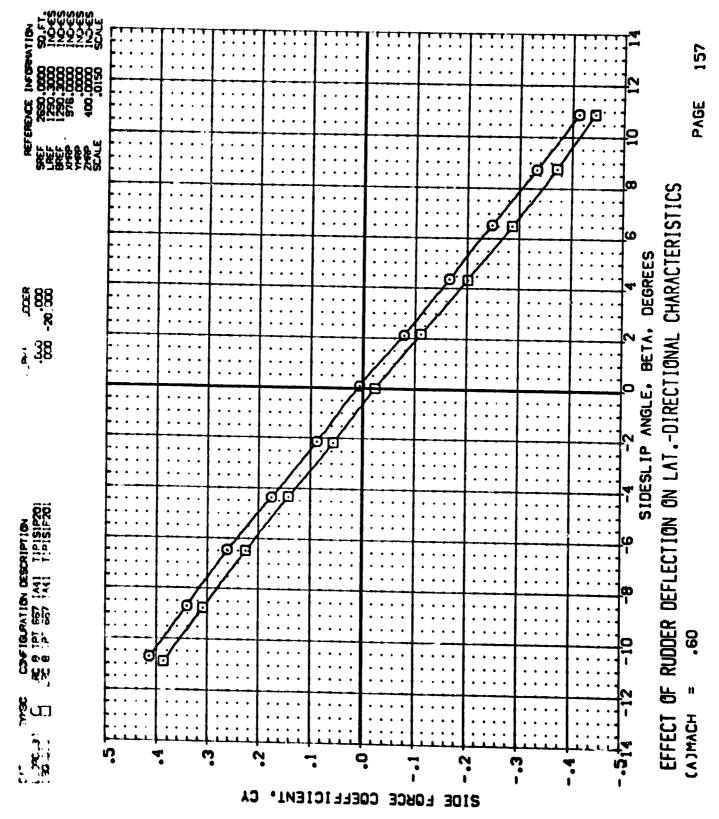




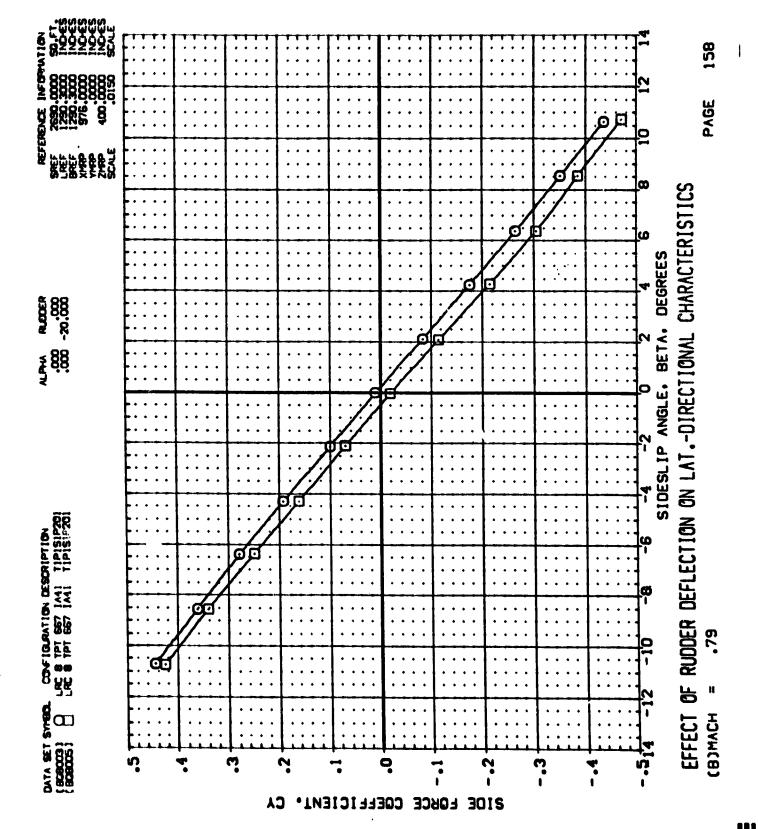
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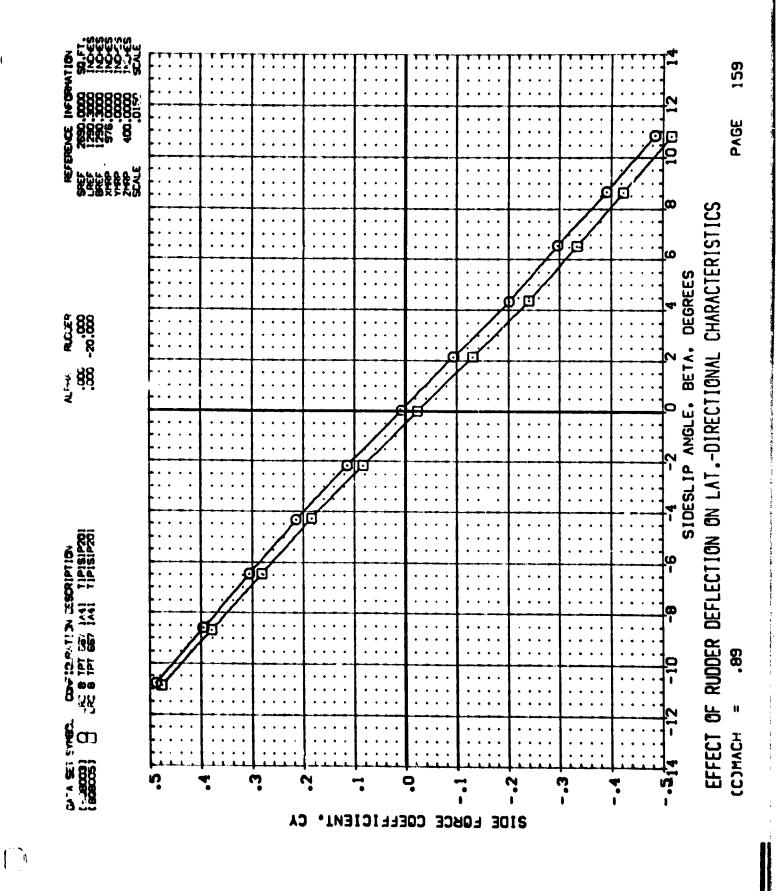


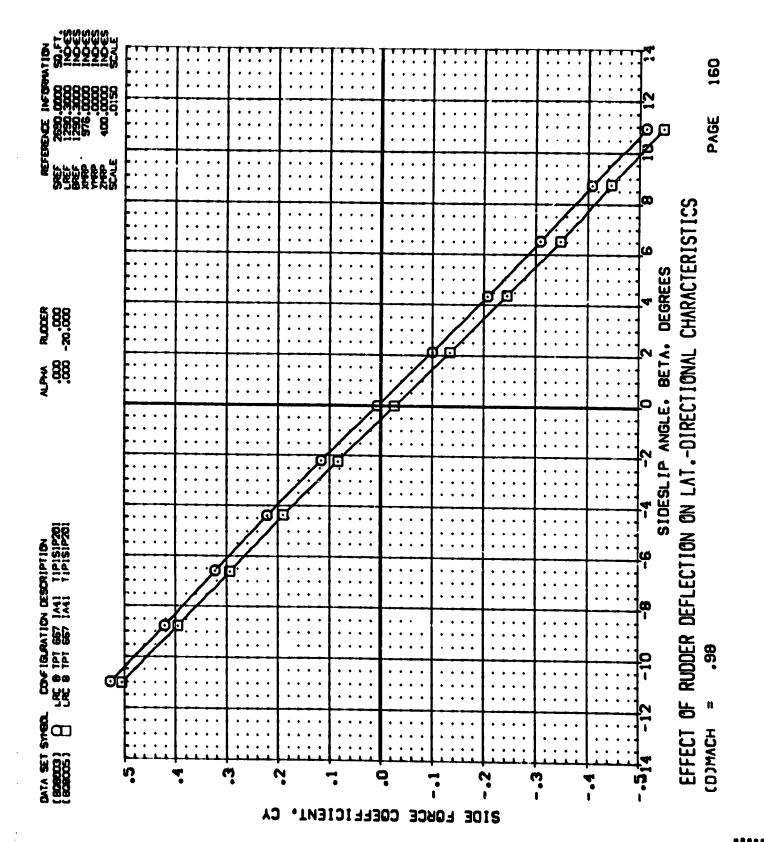


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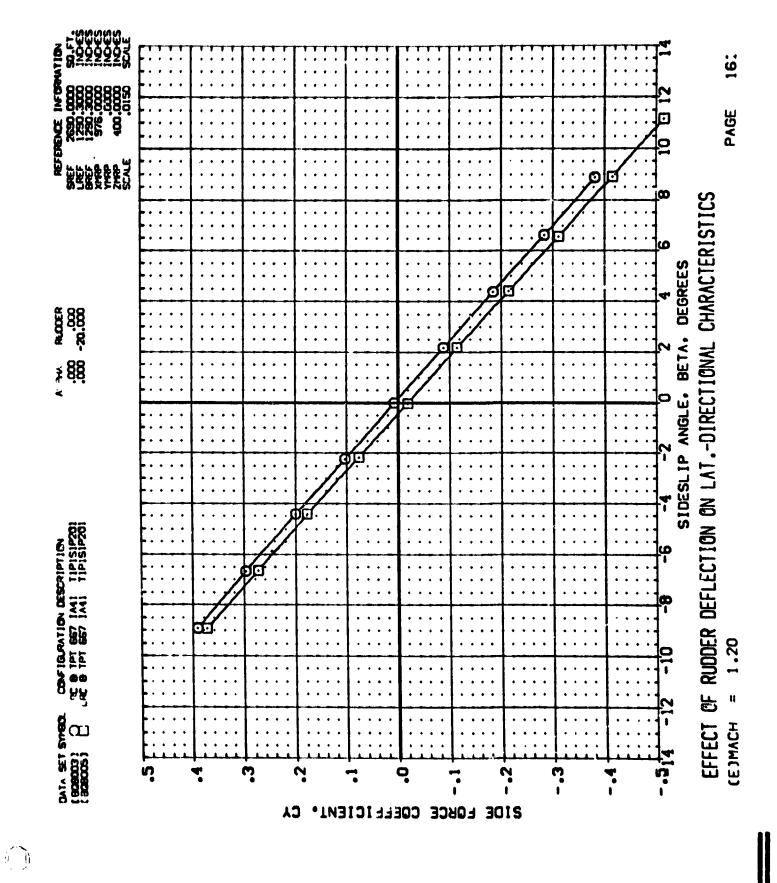


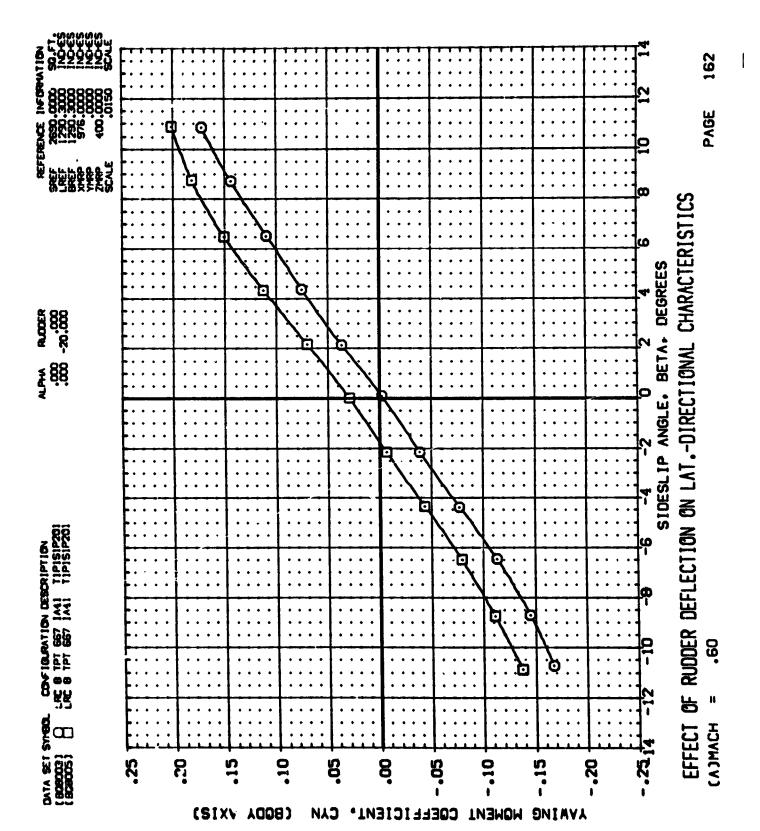












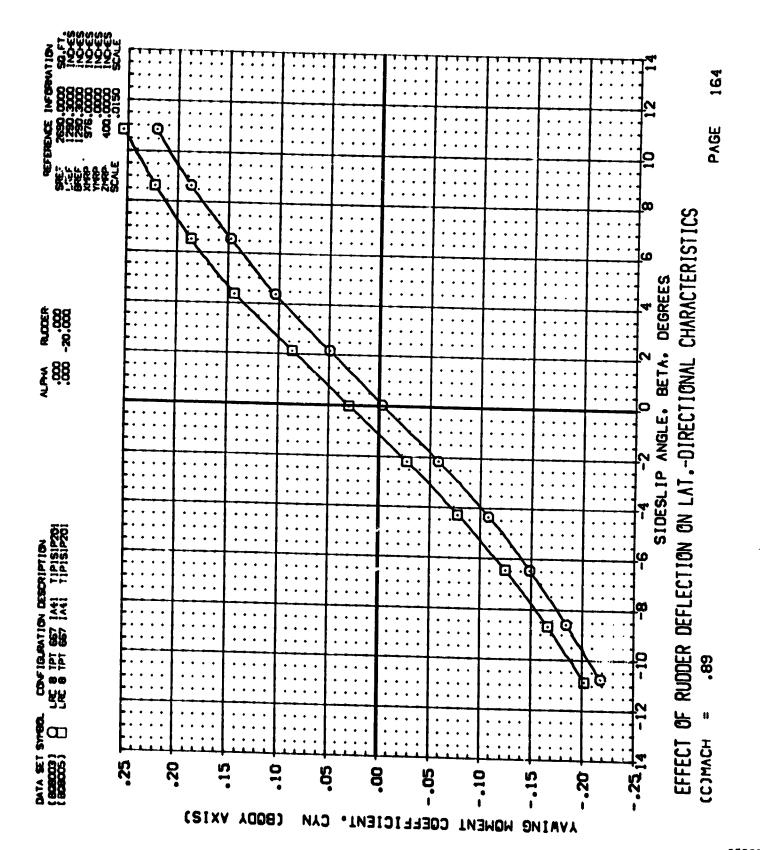


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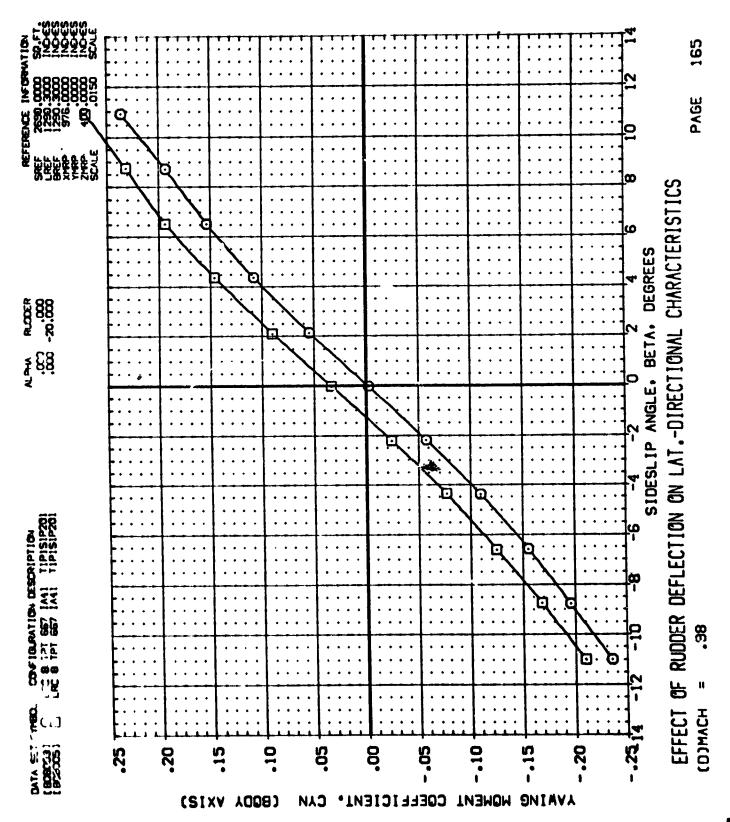
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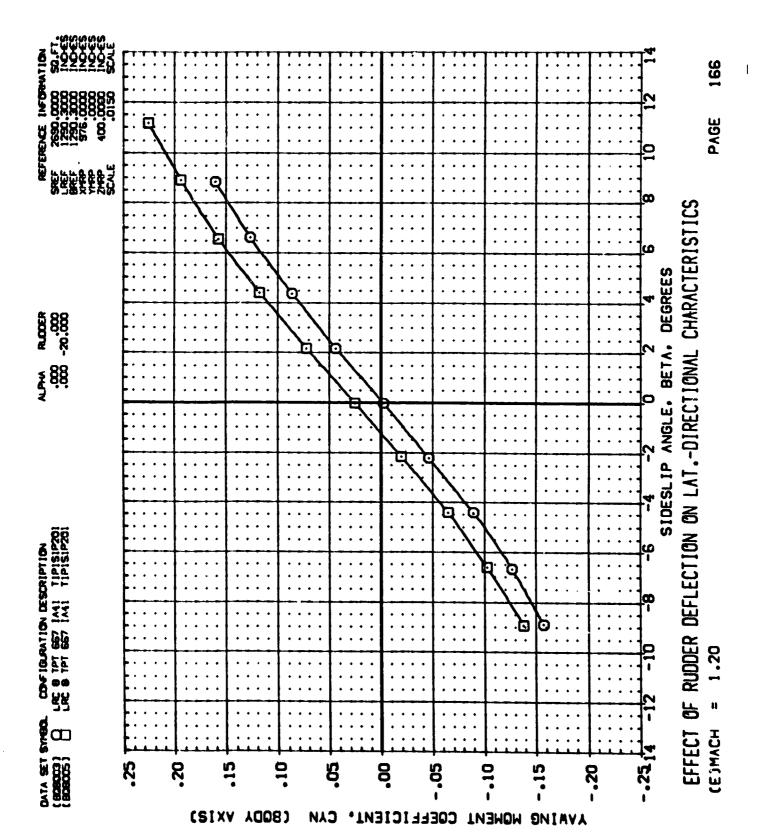
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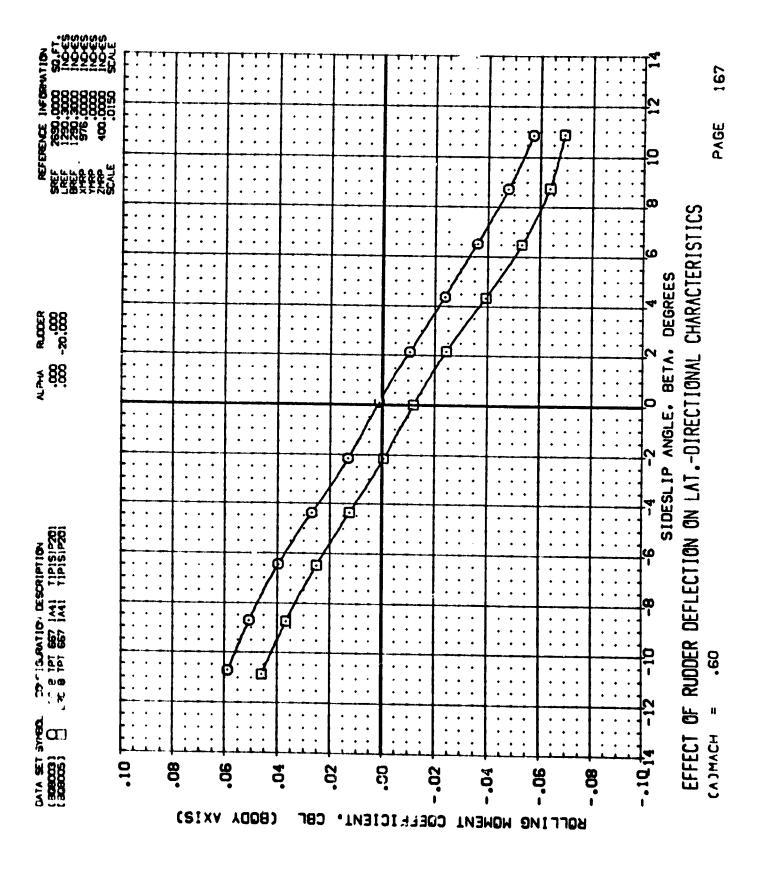


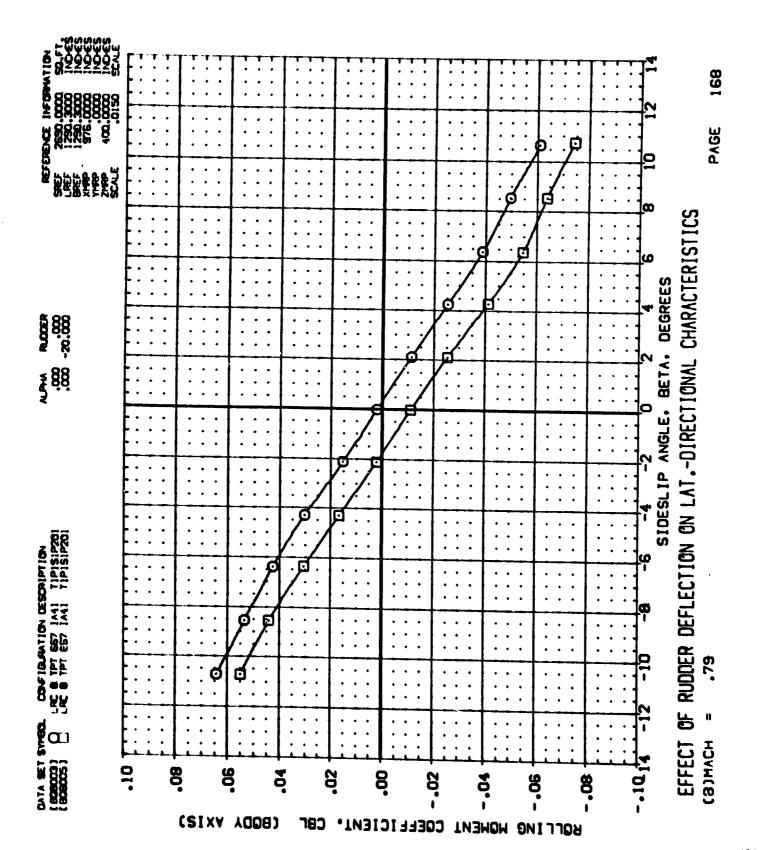




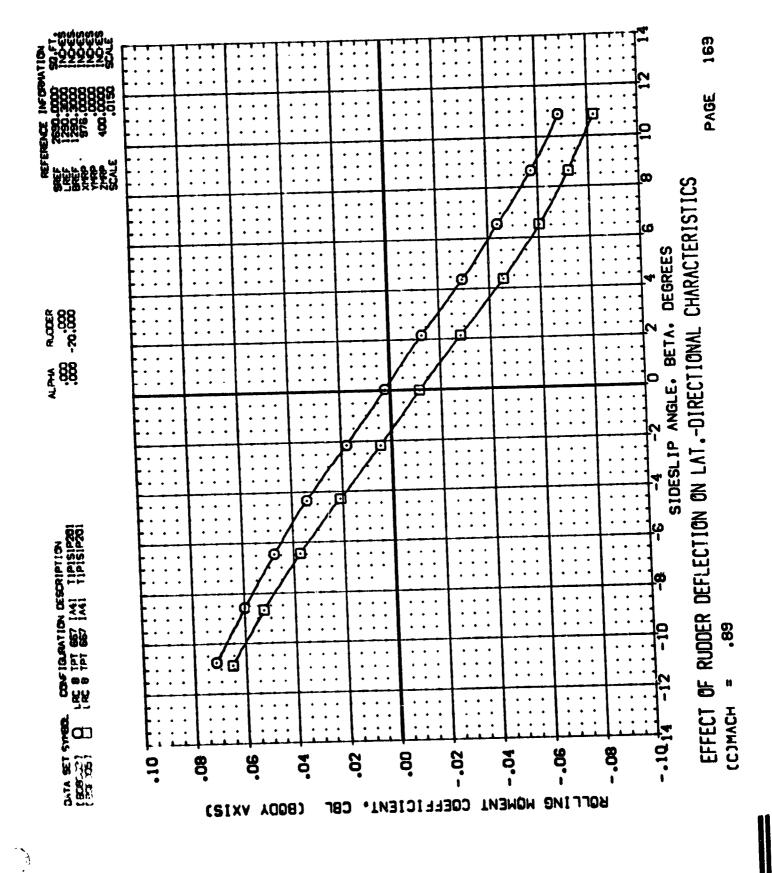


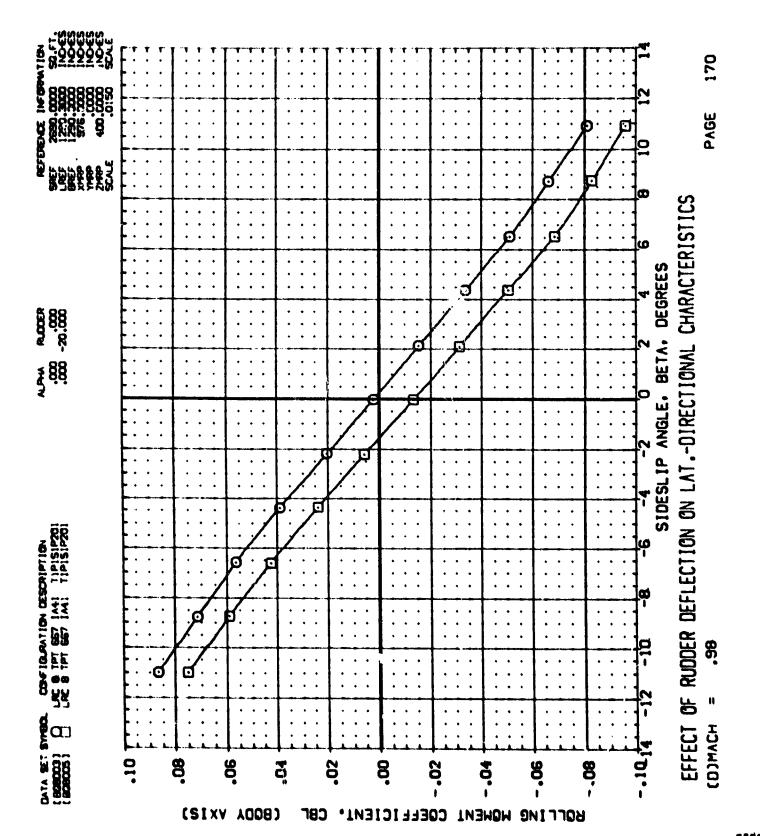




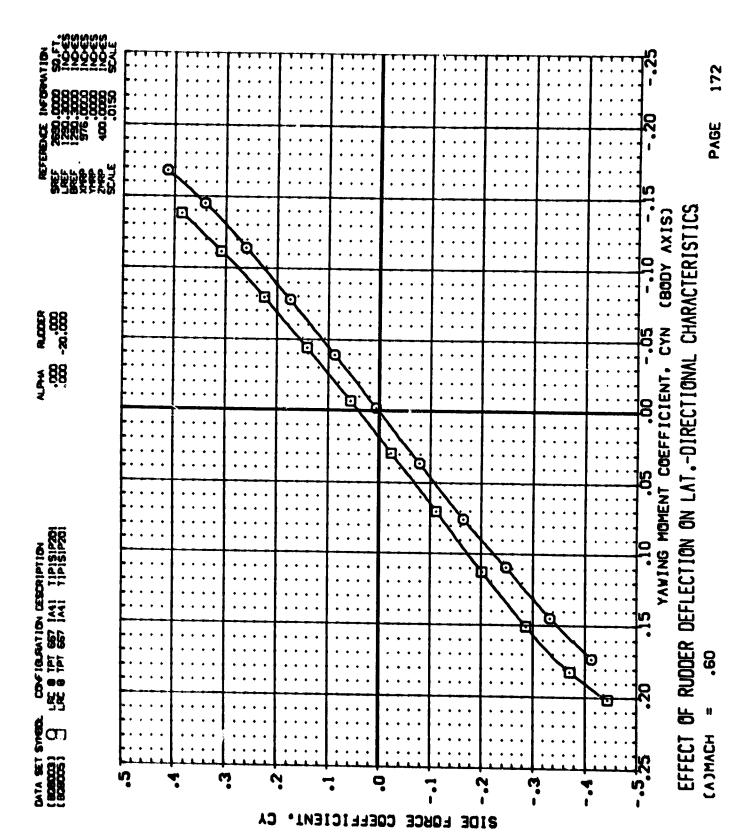




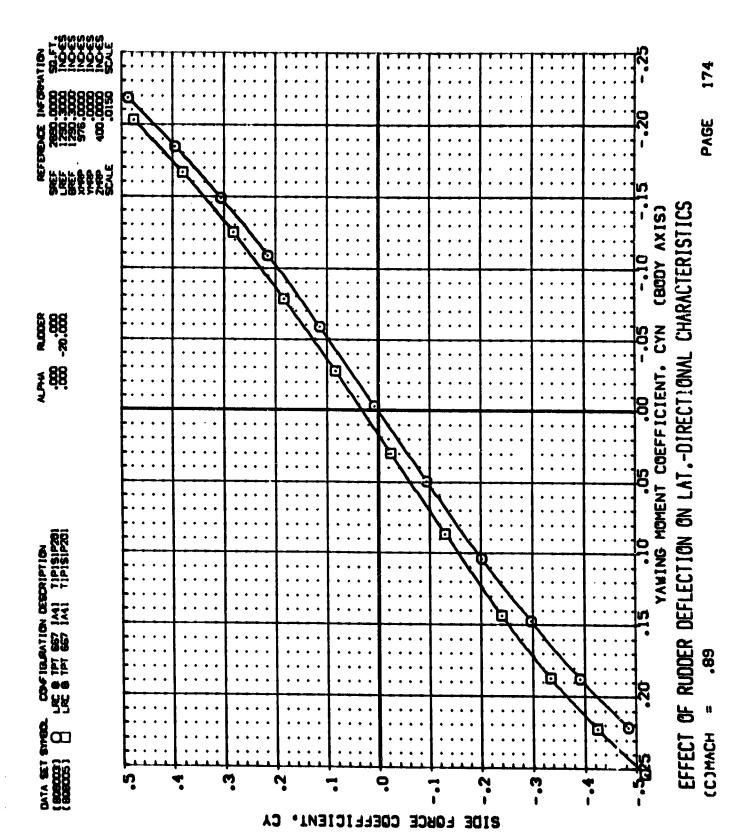




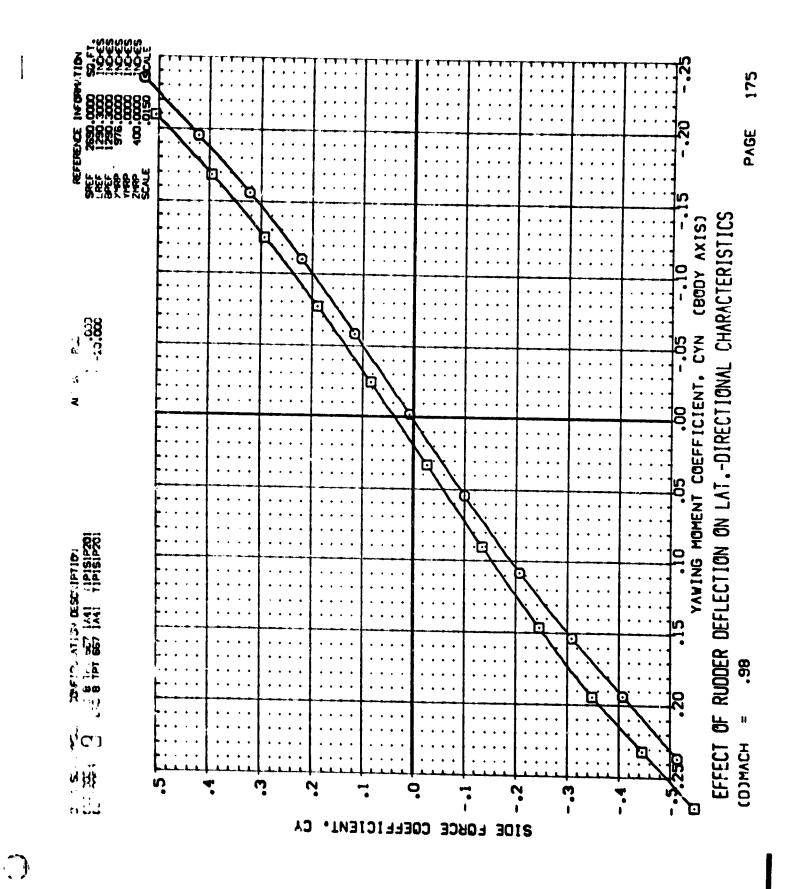




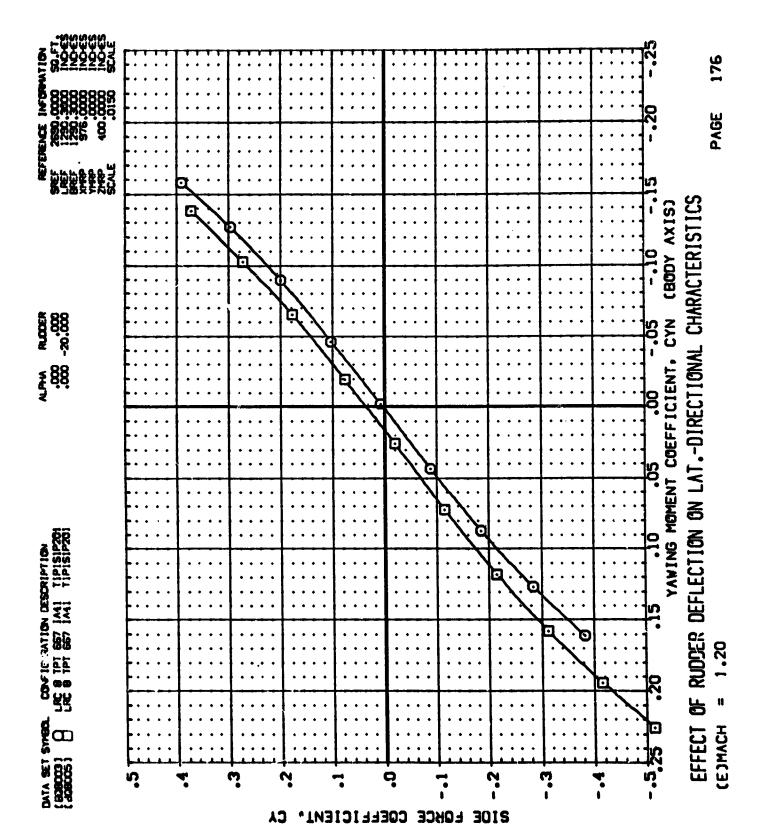




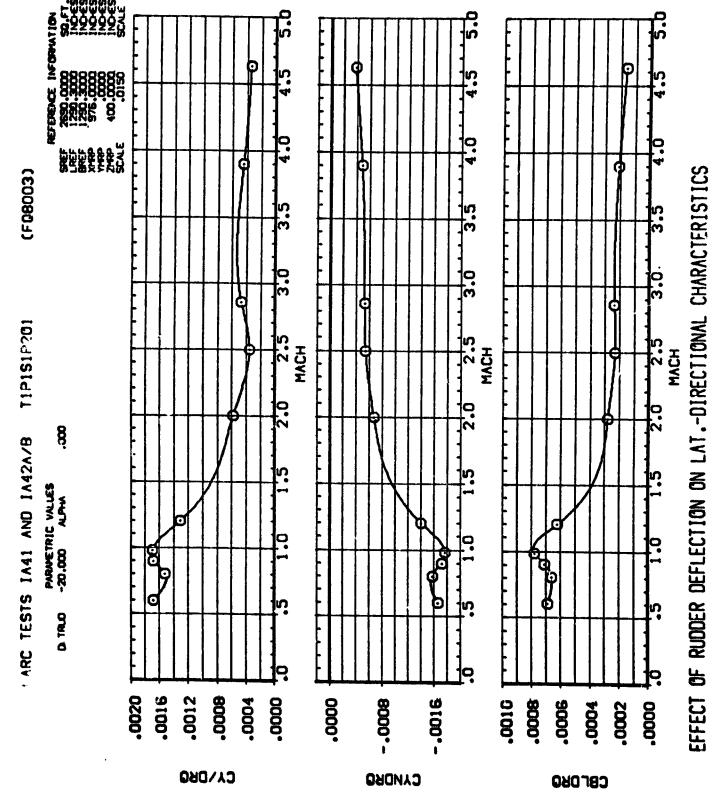




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APPENDIX TABULATED SOURCE DATA

Tabulations of plotted data are available from DMS on request.

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3	100	00000	62.00	25674	7.4000	- 00064	0.5376	00728	02886	.25600	11275
5	1.685	octro.	Je 130*-	* 1003	1000	• • • • • • • • • • • • • • • • • • • •		******	0.000	23736	44.467
LL S	3.928	00000	.09737	.24854	01328	-,00000	20200	-,00844	*00015	20403	0000
	A 210	מטטטט	m199	.23736	05633	00031	.00321	00882	.19468	.25998	.74885
3	6170		35.44	E3766	10401	7,000	.00232	05570	.31430	.27408	1.14672
5	8.314		14166					07770	43030	20408	4 45,409
675	10.832	00000	.48825	.21403	16191	28000.		CU443	3080**	96160	30464
}	GRADIENT	00000	.05244	00239	01909	00005	.0n027	00133	.04774	00520	.16501

1.5163 -1.5163 -1.4342 -1.01362 71024 36424 .03912 .45722 .66567 1.30233 1.5089
CD .44369 .38977 .34512 .31424 .29090 .27669 .26918 .27282 .28614 .31319 .35372
CL 68845 55948 31852 20661 10078 .01053 .12474 .24770 .35631 .46066
CY .00667 .00624 .00326 .00318 .00035 00404 00403 00519 00517 00037
CYN0039900336003360006100062000820009500082
CBL .00202 .00161 .00097 .00003 .00003 .000017 .00009 .00010 .00009 .000104 .00009
CLM .30998 .24968 .19472 .14314 .09442 .04895 01183 04779 14109 14109
CA .29821 .29511 .28976 .28632 .28133 .27389 .26874 .25830 .26333 .26333
CN - 76282 - 61469 - 514513 - 54384 - 21947 - 10297 - 10319 - 27695 - 51767 - 05548
BETA .00000 .00000 .00000 .00000 .00000 .00000 .00000
ALMA -11.49 -9.218 -6.990 -2.573 453 1.740 3.940 8.154 10.557
#ACH .601 .601 .600 .600 .600 .600 .600 .600

4/ 0 RN/L = 1.90 GRADIENT INTERML = -5.00, 5.00

RUN NO.

LRC 6 TPT 667 IA41 TIPISIPZOFRI

PARAMETRIC DATA

(RE8001) (29 JAN 74)

000 .000 RUDDER =

BETA 976.0000 INCHES .0000 INCHES 400.0000 INCHES REFERENCE DATA 2690.0000 54.FT. 1290.3000 INCHES 1290.3000 INCHES 10150 SCALE SOLE : SCALE :

		NO.	NO. 3/ 0	RNAL =	1.99 GRA	RADIENT INTERMAL	WL = -5.00/	00.8 /0			
	i	71.00	8	3	3	Ē	Š	5	ರ	8	S
5	AFOR A	4170	5	5	Ş	;					
908	-11.769	00000	81818	.32742	.33432	\$6200 .	00466	.00565	73426	.48733	-1.50671
		00000	45060	1001	DEARA	00000	- CO. CO.	STOTO!	- SAAAO	61527	1.38481
106	-9.449		300ca-	01770	****	36300	10000				
8	-7. 2ra	יטטטטי	48897	.31933	19477	.00208	946	.00736	44502	.37817	-1.17680
200		00000	30256	2 6 2 3 7	1000	92.50	TATUUT -	27,800	30549	34293	89082
6693	-4.936		-,23380	.0170	.16333	67700					
G.Co	20 TAL	CONTRACT	19440	.31012	06220	.00061	.00106	00055	17956	.318.4	56297
			01710	300E	04047	DOD \$4	00200	*. UN624	05512	30299	18191
5	433		30100°=	1000	1010	1					
500	1.755	COUCO	27570	.29577	04058	0000	.00437	00940	*06662	.29795	.22361
		00000	21015	20423	09245	AUGUG.	.00391	00979	.18129	.30752	. 58952
660	200			100	402		90100	04700	20427	STUFF.	A6047
99	6.217	3000	2183	20/83	-15209		99100	2			
00	A. 440	ינוניטיטי.	45037	.29860	17822	.00093	5.000	00205	.40167	.36147	1.11122
	949 64		SKINS	29871	- 21580	.0008	00110	66000°-	.49524	.39701	1.24743
.030	10.01								****		*****
	GRADIENT	0000	.06327	00254	02511	00014	.00067	00161	.03477	00413	.16825

		RUN NO.	NO. 2/ 0	RN/L ==	2.05 GRA	RADIENT INTERVAL	WL = -5.00/	0/ 5.00			
Š	A PHA	BETA	3	5	ð	ਭ	S	გ	ರ	8	2
	-12.078	00000	87930	.41083	.35217	.00149	00079	00018	77385	.58574	-1.32115
2	-9.747	60000	69123	.40557	.27475	.00140	00269	.00211	61259	.51674	-1.18548
	-7.420	00000	51911	.40593	.20554	.00116	00216	.00343	-,46226	.46965	98427
ă	-5.143	00000	36586	.40277	.14704	.00056	.00047	57000.	32828	.43394	75652
470	2 6	00000	22028	.39468	.09338	00010	.00339	00339	20073	.40497	49567
0.0	988	יטטטט	09195	.39425	.05026	00065	71700.	:: 00963	08810	.39512	22297
	984	THE THE THE	.05061	\$9595	00667	86000-	.00795	01367	.03898	.39527	.09862
9,0	400 H	יטטטט	20255	.39557	08424	00047	.00472	01156	.17500	.40850	.42840
970	6.2.5	00000	34456	39109	13879	.00068	.00017	00494	.30017	.42611	.70443
9	8.477	00000	47092	39288	18089	.00093	000085	00248	.40786	.45801	.89049
5.6	10.713	00000	.59379	.38635	23290	.00137	00038	-,00082	.51162	.49000	1.04411
	GRADIENT	00000	.06292	.0001	02630	-,00006	.00021	00127	.05593	.00048	.13796

RN/L = 2.05 GRADIENT INTERWAL = -5.00/ 5.00



CATE 12 JUL 74	JU. 74				TABULATEC	SOURCE !	DATA, LAR	TABILATEC SCIRCE DATA, LARC 8FT,-567 (1A-41)	14-41)				•	PAGE 3
					LEC 8 1	LRC 8 TPT 667 1A41		TIP1 SIPZOLFRI				(R98001)		1 29 JAN 74)
	REFE	RENCE DATA	*									PARAMETRIC DATA	DATA	
SAET : LAST :: BAST :: SCALE ::	2690.0000 1290.3000 1290.3000	99.FT. INCHES INCHES SCALE	XXXXX YXXXP ZXXXP		976.0000 .0000 400.0000	INCHES INCHES INCHES				2	BETA =	000•	RWDER =	900.
			N N N	Š	1/0/1	RNAL =	2.11 G	GRADIENT INTERVAL = -5.00/ 5.00	RVAL = .	-5.00/	9.00			
1			-	3		5	3	ਵੱ	£		ሪ	ಕ	8	5
	10.50		000	6	_	.46219	.36131	960CQ*	.0024		20404	80507	.65225	-1.2343
				-		46008	.26983	86000*	2000.		.00166	62086	.57777	-1.0745
				.5		.45542	20264	.00108	000		.00044	46737	. 52262	8942
			g			.45186	.14392	.00065	.001	_	.00009	32971	.48441	6896
102			g	2		.44897	.08336	.00019	.00237	Ĭ	00078	18888	.45932	41121
1.201			ğ	Ç		.44628	.02985	00040	.0034	•	.00469	06166	.44699	1379
1.201			ឧ	E.		.44312	02361	.00511	.00	•	.00546	.06458	.44519	.1439
1.201	3,992		g	2		,44255	08046	00000*	.001	•	.00708	.18247	.45636	3998.
2			S	¥		,43697	12821	.00034	•000	•	.00468	.29186	.47138	.6191
1.27				47		,42317	18720	.00059	5014	•	,00349	.40986	.48962	.8371
	•		2	85		41714	21752	.00036	900.		.00168	.50471	.52149	.9678
	3	00000	S	Š.	.06143	76000	-,02354	00000	-,0002	•	,00085	.05356	-,00046	.1172

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DATA, LARC 8FT667
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DATA,
SOURCE
TABULATED
2

CATE 17 JUL

SCALE:

LRC 8 TPT 667 1A41 TIPISIPZOFRI

(R@6002) (29 JAN 74

PAGE

900

RUDDER = PARAMETRIC DATA 900 ALPHA 976,0000 INCHES .0000 INCHES 400,0000 INCHES VARP VARP REFERENCE DATA 2699.0000 50.FT. 1290.3000 INCHES 1290.3050 INCHES .0150 SCALE

L/0 -.31175 -.32011 -.34623 -.47506 -.45310 -.41074 -.37708 -.31732 -.00270 0 27772. 27672. 27172. 27173. 26579. 26750. 27738. 27738. 27738. CL ...08659 ...08859 ...108492 ...11829 ...12612 ...12125 ...110384 ...09550 ...00070 CY .42861 .34768 .26499 .17913 .00829 .00829 .16011 .24653 .33699 .42050 3.20 GRADIENT INTERVAL = -5.00/ 5.00 CYN -.17631 -.14863 -.06035 -.06182 -.06182 -.0516 .07418 .11105 .14777 .17654 CBL .06034 .05142 .04021 .02715 .01350 .03143 .00556 .03563 .03786 RNA .. CA 27720 27720 27720 27813 27873 26739 26739 2673 27872 27872 27872 27872 27872 27872 10 /01 C+ ..04636 -.04636 -.09036 -.10722 -.12013 -.12316 -.11583 -.10583 -.09568 -.09068 ğ ALPHA -36941 -36653 -37035 -37732 -39402 -40653 -40677 -41781 -41701 -61 -10.939 -9.733 -6.533 -4.369 -2.190 -.029 2.148 4.321 6.507 9.705 10.901 RADIENT

L/0
-.19631
-.20309
-.21745
-.24645
-.29363
-.32681
-.30791
-.20374
-.19262 CD .30052 .29775 .29775 .29877 .28637 .28173 .28173 .28664 .29284 .29284 .29987 .29987 .00004 CL -.05960 -.05047 -.06358 -.07058 -.08631 -.06130 -.05130 CY .45425 .35718 .258318 .19298 .19298 .19298 .19298 .19298 .19298 .19298 .19298 .19298 .192619 .192619 .192619 .192619 .192619 CYN -.19543 -.16354 -.15057 -.04879 -.00623 -.03796 .13796 .12599 .16000 CBL .06546 .05402 .05402 .04301 .03011 .01524 .02532 .02532 .02532 .04959 CLM .02772 .02893 .03195 .03195 .04219 .04219 .02709 .00370 .00930 CA .30026 .29748 .29213 .28213 .2987 .2987 .29254 .29953 .29953 00 - .06092 - .06177 - .06485 - .07184 - .09169 - .06273 - .06273 - .06235 - .06200 ALPHA 25310 25104 24856 25235 27528 27528 27998 27959 27959 27959 27959 10.717 -6.555 -6.414 -4.261 -2.140 -.029 -.029 6.365 6.365 ADIENT

GRADIENT INTERVAL =

" · %

DATE 12 JUL 7.

The same of the sa

REFERENCE DATA

2690.0000 54.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

SREF = LAGF = BAGF = SCALE =

LRC 8 TPT 667 1A41 TIPISIPZOIFRI

(29 JAN 74) (R@&DD2)

	.000		
: DATA	RUDDER =		
PARANETRIC DATA	000		
	**		
	ALPHA		
	976.0000 INCHES	.0000 INCHES	0.0000 INCHES
		**	4
	9	e.	2
	-	~	-

		RUN NO.		9/0	RNVi. =	2.01 GRAI	RADIENT INTERVAL :	VAL = -5.00/	2.90			
2	BETA	A PHA	3		3	3	ਚੱ		გ	ರ	8	5
F10	-17.880	29753	043		.34252	.01594	.07492		.50209	04150	.34274	12109
3	-A. 686	28450	034		.33738	.01075	.06189		.40641	-,03314	.33755	09818
3	- P P	27312	1620		.32860	.00680	.04908		.31358	02752	.32874	08370
	446	2698A	127		31898	.00416	.03562		.22083	02619	.31911	08207
	200	27411			31597	.00857	01900		11994	03372	.31113	10839
7 0		28019			39356	.01205	00270		.01033	04097	.30377	13489
600	2.1%	78614	0341		30994	.00237	01235		08927	03259	.31011	10510
600	4 200	25252	0.00		31988	m928	-,02933		19416	02158	.32000	96745
9 6	2.5.5	30383	0241		32769	01081	04415		29362	02246	.32781	06850
	A 642	32284	40ED.		33652	00923	05786		-,39140	02856	.33668	08483
9	10.840	34336	£1395		34230	00511	06977		48888	03745	.34253	10934
	GRADIENT	00265	.00046		.00003	00153	00747	.02485	04811	.00048	.00003	.00150

		RUN NO.		0 /2	RN/L =	2.05 GRA	RADIENT INTER	NTERML = -5.00/	2, 5.00			
ξ	BETA	At Pita	8		ฮ	3	ਵੱ	CX	ჯ	ರ	8	S
	-11,039	36186	055		.43202	.03719	.08829	24433	.54062	-,05256	.43236	12157
8	-8.770	-,35839	052		.42717	.03452	.07263	20098	.42717	05062	.42749	11701
8	-6.580	7725277	051		.42238	.03359	.05760	16000	.32789	04845	.42269	11462
	-4.378	35698	-,057		.41486	71750.	.04019	11384	.22581	05500	.41521	13246
	100	36039	062		40438	.03893	.02131	06191	.12068	06039	.45476	14921
		37381	220		.39747	.04276	.00242	00403	.01032	07001	.39794	17592
	2.155	37811	990'-		40081	.03508	01537	.05316	09761	06345	.40124	15813
970	ATT. A	38314	-,059		.41043	.02847	03380	.19757	20479	05681	.41081	13829
9	75.5	38650	053		.42074	.02348	05142	.15586	31029	05080	.42110	12053
970	A. 726	.39950	055		42601	.02170	06652	.19752	41105	05217	.42639	12234
979	10.959	42731	-,062		.43062	.02043	08102	.24014	51595	05893	.43158	13670
	GRADIENT	00322	00033		00057	***************************************	00848	.02561	04956	00031	00057	00094

(i) ..

8FT667
LEC
SOURCE CATA,
TABULATED S

LRC 8 TPT 667 IA41 TIPISIPZOIFRI

(RE#002) (29 JAN 74)

FARANETRIC DATA

RUDDER 8

AL PAK

CATE 12 JU. 74

SATE ...

976.0500 INCHES .0550 INCHES 450.0550 INCHES

2695.5555 54.FT. 1295.3555 INCHES :295.3555 INCHES

7 2 E E

0 3 Š

9ETA -6.940 -6.679 -2.239 -.025 2.176 5.615 6.615 6.817

. 09021 . 07347 . 07346 . 08254 . 09690 . 09690 . 07307 . 07025 . 06643

CL .. 04186 .. 04186 .. 03390 .. 03447 .. 03539 .. 03296 .. 03296 .. 03154 .. 03154

46733 -4673 -44917 -44190 -44570 -45996 -47495 -474

CN -.04565 -.03731 -.03797 -.03695 -.03568 -.03568 -.03581 -.03514 -.04214

2.11 GRADIENT INTERVAL = -5.00/ 5.00

CY .40982 .50743 .20962 .11019 .11019 .18974 ...18974 ...28783 ...49048 ...49048 ...49048

CYM -.16583 -.13458 -.05203 -.05203 -.05203 -.05203 -.05203 -.05203 -.05203 -.05203 -.05204

.05496 .03496 .03786 .0203 .0243 .03247 .03247 .05437

01786 01782 01782 01782 01782 01787

RN/L =

46371 45371 45373 44383 44383 4558 45558 46573 46573

REFERENCE DATA

LRC 8 TPT 667 1A41 T 2151P201

CATE 12 JU. 14

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(R&\$003) (29 JAN 74)

PARANETRIC DATA

	000.
	.000 RUDDER =
	200.
	ALPHA =
	NCHES INCHES
	976.0000 1 1 0000.
	44 14 1
_	4 60
ACTERIOR OF DAY	0.0050 90.FT. 106P = 976.0030 1NCHES 0.3050 1NCHES 116P = .0000 1NCHES

1	2690.0000	_	9 A	s 976.9050					WE'Y	000	, K	
200		INCHES TO		* .0000 * 400.0000	S INCHES							
SCALE :			\$ 3	15/ 0	ה ה	3.19	GRADIENT INTERVAL =	AVAL = -5.00/	00.8 10			
		•	! !					į	3	C	ε	9
				3	5	3		£		و د	37146	97964
Ž			_ •	00876	27287	.04636		16766	.41353	U9ZUZ	04020	
. 596		•		910600	27.20	45070		14504	.34151	10136	.27188	3/261
.599			,	10316	.21.2	***************************************		-,11368	.26084	10870	.26956	-,40409
.594		•	4	11545	*C897*	10000		05770 -	.17545	11779	.26739	44053
905		Ī	ø	11957	.26565	cros.		Addra	NAR42	13213	.26536	49793
505		40135	'n	13399	.26442	20.042		71000	79975	-,14311	.26125	54788
101		·	4	14501	.26515	Cran.		1360	07850	13911	.26291	52913
100		·	ı	14193	.26188	.07512	•	40000	16500	19751	26628	47884
cke.			ø	2,12945	.26535	.56578	•	97570	ARCOT.	70.37	00000	42224
. 198				11517	26741	.05449	•	.10977	24815	-11328	02002	1004
. 595		•	2	1777	35036	04616	·	.14465	33348	15787	51072	10880-
. 596		·	m	10983	02420	K74.F	·	17294	41282	-,09982	.27244	36641
565.		•		-,15181	0.17.		00574	.01752	03899	00123	00022	00502
	3	0042		-,05125	- מתחכי	00000						
		œ	N	NO. 14/ 0	RVL "	1.91	GRADIENT INTERVAL = -5.00/ 5.00	RWL = -5.0	00' 8' 00			
		•								•	8	•
				ě	č	N O		Š	ჯ	ರ	9	
Đ			_ !		20477	13496		18960	.44489	07109	.29410	24114
. 79.		•	<u>ر</u> ر	2,010	91100	N3656		15978	.36240	07225	.29151	24784
24.		•	<u>.</u>	0/333	90300	10.00		12808	.27878	07902	.28732	27504
795		•	Ņ	08033	96087	97970		09164	.19222	08699	.28122	35933
194		•	<u>ق</u>	08828	19092	00.20		04832	10037	10671	.27678	36386
27.		•	õ	10205	57072	49640		00487	.01013	10959	.27204	45285
194		•	Đ	11095	64172	40000		14097	08346	10504	.27442	38277
797		•	92	10642	27389	5000.		19547	17575	09199	.27840	33541
795		·	Ţ.	09338	.27794	51130.	•	* 20 KG2	- 26493	08432	.28293	29803
Jo.		٠	E.	08576	.28250	.02cu.	_	30031	35450	07759	.28767	26973
107	8.531	29539	9	70670	.28726	.02389	10890	00001	ASSA .	0570	.29113	25729
704		·	12	07645	.29073	.01820	•	26161	9040	-,00068	-,00038	00288
			SH.	-,05369	00038	3c030*-		0.000				
	1											

LRC & TPT 667 1A41 T1P151P201

(R@6003) (29 JAN 74)

PARAMETRIC DATA

8

.000 RUDDER =

SREF = 2690.0050 54.FT. YMEP = 976.0000 INCHES

LREF = 1290.3050 INCHES YMEP = 450.0000 INCHES

BREF = 1290.3050 INCHES ZMEP = 450.0000 INCHES

SCALE = .0150 SCALE

RUN NO. 13/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

5	13633	122'9	11600	12120	15655	19313	17781	13798	12663	13441	14123	50254
8	.33179	.32671	.31904	.31082	.30356	.30037	.39418	.30781	.31550	.32354	.33079	00025
ಕ	04590	03992	03765	03767	04752	05801	05409	04247	03995	04349	04672	00075
5	.48724	.39584	,30681	.21476	.11424	. 00809	09444	20134	-,29770	-,39151	48463	04794
CAS	21619	18446	14657	10858	05860	00317	.04963	.10415	.14774	.18765	.22157	.02458
ਵੱ	.07179	20090	.04775	.03411	.01801	.00213	01301	-,02962	04406	05762	06893	00730
ā	.01757	.01406	.01233	.01124	.01750	.02493	77710.	.00527	.00108	. 67000	00027	00053
5	.33155	.32651	.31885	.31064	.30333	.30007	.30389	.30758	.31528	.32328	.33050	00026
3	04761	04154	03650	03917	04902	05953	05568	04410	04167	04533	04870	50076
ALPHA	29651	28555	27867	27613	-,28237	28992	30511	30241	31143	32733	34399	00324
BETA	-10.776	-8.607	-6.470	.4.347	-2.167	.025	2.153	4,349	6.745	f. 654	10.859	GRADIENT
M C+	.693	.694	.894	969	.894	169.	.693	.693	.893	.693	.894	

RUN ND. 12/0 RN/L = 2.05 GRADIENT INTERWL = -5.00/ 5.00

5	13340	12784	12156	13675	16832	20295	19563	16971	14453	14418	14714	00321
8	.42728	.42423	.41505	.40543	139907	.39560	.39761	.45260	.41220	.41704	.42576	00032
ರ	05700	05423	05045	05544	06717	08029	07580	06470	05958	06013	06191	00124
Շ	.52840	.42182	.32229	.22140	.11604	.00776	-10000	20825	30977	40675	51271	04927
CYN	23530	19552	15552	10983	05769	00191	.05458	.10633	.15372	.19380	.23594	.02513
ਰ	.08665	.07157	.05652	.03901	.02033	.00210	01560	03378	05113	06636	08092	00832
ð	.03943	.03552	.03183	.03447	.04239	.05140	.04546	.03293	.02849	.02606	.02211	00000
5	.42691	.42387	.41472	.40508	.39863	39506	.39709	.40216	.41179	.41661	.42029	00034
3	05972	÷6950°-	05305	05798	06973	08290	07845	06744	06240	06307	06502	00126
ALPHA	-,36530	36599	35831	35855	36712	-,37863	-,38331	38898	39287	45446	42364	00353
BETA	-11.617	-6.785	-6.596	-4.396	-2.212	030	2.128	4.347	6.530	8.710	10.931	GRADIENT
NO.	D86.	.981	.901	.980	.983	.979	.979	.980	.979	.978	.978	-

RUM NO. 11/0 RN/L = 2.11 GRADIENT INTERNAL = -5.00/ 5.00

5	08878	08130	19129	59991	10819	19717	09659	06353	07432	00001
8	.45951	.45496	.44817	.44213	.44050	.44528	.44365	.44846	.45369	05549
ರ	04079	-,03699	04091	04417	04762	04718	04285	03746	03372	00031
Շ	.39109	.29802	.20069	.10264	.00741	08846	18498	28383	-,38262	04370
CYN	15766	12691	08958	04600	00215	.04382	.08700	.12672	.16087	.02011
ਵੱ	.06755	.05347	.03650	.01867	.00202	01443	03140	04605	06327	00767
ð	.01575	.01548	.01939	.02141	.02326	.01992	.01284	.00587	00200	00066
5	.45916	.45465	.44784	.44177	.44011	.43989	.44328	.44813	.45338	00050
3	04454	04057	04440	04761	05108	05071	D4649	04120	03764	00033
ALPHA	46678	-,45053	44579	44547	45015	45941	-,47096	47851	49519	05264
BETA	-6.922	-6.681	-4.437	-2.233	039	2.167	4.376	6.607	0.659	GRADIENT
Ö	1.200	1.201	1.201	1.201	1.251	102.1	1.201	1.200	1.201	



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(RQ8054) (29 JAN 74

PARAMETRIC DATA LRC 8 TPT 667 1A41 T1P151P200

RUDDER = 8 3.18 GRADIENT INTERVAL = -5.00/ 5.00 BETA 976.0000 INCHES .0000 INCHES 400.0000 INCHES 2690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE SKEF = LREF = BREF = SCALE =

1.7693 -1.55451 -1.46715 -1.25269 -.59981 -1.59916 .74766 1.12654 1.12654 CL -.75516 -.61915 -.49312 -.25389 -.15645 -.15645 -.15645 -.19287 -.19287 -.19287 -.19287 -.19287 -.19287 -.19287 CY .00824 .01051 .00511 .00256 -.010342 -.01032 -.01032 -.00026 -.000155 -.0041 -.0041 -.00127 .0039 .00318 .00518 .00526 .00470 .00460 .00468 28336 28336 28772 2772 17540 17540 117540 17540 17540 17540 17540 17540 17540 17540 17540 17540 17540 17540 17540 17540 17540 CA .26531 .26685 .26685 .26686 .25357 .26186 .25346 .25359 .25423 .25423 .25423 .25423 .25423 .251202 .200182 CN - .62844 - .57244 - .53128 - .39628 - .13631 - .13183 . .9320 . .22018 . .34625 . .65378 BETA -.01414 -.0238 -.01393 -.01393 -.0145 .02034 .01973 .01973 .01255 ALPHA -12.002 -9.504 -7.305 -4.972 -2.787 -4.96 1.042 6.340 6.340 6.340 8.613 10.883

CD ...44156 ...38601 ...34358 ...30972 ...26680 ...26460 ...26460 ...26925 ...26925 ...30945 ...34777 ...00470 CL -.71131 -.57834 -.46234 -.28832 -.11540 -.00504 (11164 (23578 (23578 (34138 (34138) CY .00641 .00610 .006464 .00464 .00102 -.00904 -.001016 -.00644 -.00181 1.89 GRADIENT INTERVAL = -5.00/ 5.00 CYN
-.00361
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-.00357
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..00018
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..00287 CBL .00134 .00174 .00135 .00092 .00042 .00006 .00003 .00003 .00003 .00003 CLM .32584 .25502 .21324 .11117 .06218 .01163 .01163 .01561 .00561 .00561 .00561 .00561 .00561 .00563 .17655 .00236 CN -.78405 -.63186 -.50055 -.24159 -.11703 -.11703 .13027 .26519 .50514 BETA -.00777 -.00675 -.00937 -.00320 -.00320 -.00515 -.01509 -.01167 -.00510 -11.301 -9.051 -6.958 -4.730 -2.577 -2.577 -6.257 6.273 6.273 6.273 6.273 8.390 10.564 RADIENT RADIENT

1.00 -1.61089 -1.49826 -1.10205 -1.10205 -0.1905 -0.1905 1.10319 1.29105 -17389

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CATE 12 JU. 74

LRC 8 TPT 667 1A41 T1P151P204

(R@8004) (29 JAN 74)

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	000.		5	-1.53861	-1.4917	-1.25949	942	601	21020	.214	.582	.655	1.584	1.2317	17295		5	-1.3446	-1.2520	-1.95%	774	52632	2368	806C.	.4030	.6821	.88749	1.0317	.1314
E DATA	RUDER =		8	.48931	.42878	.37876	.34191	.31788	.30333	.29708	.39745	.32860	.36036	.39782	00401		8	. 58866	.51714	.46658	.42757	.40498	.39469	.39457	.41222	.43039	.45877	.49263	00182
PARANETRIC DATA	000•		ರ	-,75289	69154	45811	32217	19131	06376	.06361	.17923	.28127	.39083	.49001	.05626		ರ	79152	62165	47088	33100	21315	09348	.03587	.16612	.29361	.40712	.50825	.05500
	BETA :	00/ \$.00	5	.00681	.00794	.00556	.00141	•.00309	00676	01053	01275	00870	-,00602	00561	00160	07 5.00	გ	20200	.00101	00010	00094	00493	01075	01450	01337	00803	00572	00419	00153
		RWL = -5.00/	3	00419	00482	00397	.00035	.00305	.00490	.00538	.00547	.00332	.00220	.00155	.00056	W. = -5.0	Č	00205	00107	.00113	.00272	.00562	.00842	.00875	.00618	.00264	.00183	.00179	.00045
		GRADIENT INTERVAL =	ಕ	.00246	.00232	.09166	.00104	.0052	.00024	00013	00082	00059	.00050	.00063	00020	GRADIENT INTERVAL = -5.00/ 5.00	ෂ	.00181	.00114	.00068	.00020	00057	00119	00126	00099	00030	70000.	.00093	00014
		1.99 GR	ā	.34907	.27382	.20489	.14253	.08333	.02567	03762	08976	12075	16702	20670	02619	2.05 GRA	ð	.36455	.28350	.21340	.15250	.10305	.05714	00219	07604	13200	17775	22810	02487
	.0000 INCHES .0000 INCHES .0000 INCHES	FIVT =	3	.32745	.32542	.31882	.31347	.30869	30291	.29487	.29391	.29596	.29825	.29948	00237	RN/L =	5	.41122	40609	.40288	.39731	.39416	.39390	. 39323	.39952	.39534	.39309	.38856	.00015
	# # # # # # # # # # # # # # # # # # #	RUN NO. 24/ 0	3	83609	66272	-,50167	34991	20581	06571	.07314	•20066	.31565	.44006	.55559	.06173	. 237 D	3	89662	69927	52641	36677	23255	09674	.04842	.19469	.33934	.47084	.59162	.06211
DICE DATA	4.FT. DORP NCHES THEP NCHES ZHEP CALE	RUN	BETA	00039	01006	00793	00539	.00051	.05633	.01644	.02293	.01681	.01186	.01242	.95324	Q. N.	BETA	05020	70003.	00326	-,00552	00151	.00893	.02031	.02471	.01817	.01306	60900.	.03365
REFERENC	2690,0000 59.FT. 1290,3000 INCHES 1290,3000 INCHES .0150 SCALE		ALPHA	-11.633	-9.351	-7.147	-4.847	-2.650	369	1.846	4.083	6.238	6.550	10.746	GREDIENT		ALPHA	-12.000	-9.612	-7.309	-4.966	-2.781	5.47	1.825	4.032	6.340	6.557	10.610	GRADIENT
	SAUE:		Đ.	669.	136.	669.	668.	006.	955	.899	669.	.899	669.	.899			MON	086.	380.	.981	.983	£86.	.98D	.979	.987	.980	389.	.980	

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:	2		1	9 9 9		L/D -1.25922	-1:1	9%	7.	A		7	ř	ğ	تو	ģ	ä	
7	1 29 JAN 74	DATA		RUCDER =		65 164706	12:27	.51814	.47932	.45289	.44146	.44214	.45358	.46895	.48838	.52125	•0000.	
	(846004)	PARAMETRIC DATA		860.		CL 61479	63497	48577	-,34397	20490	06345	.04271	.17812	.35085	.41559	. 50468	.05447	
				**	8	G 7 9	282	186	22	393	65	537	781	838	645	119	8	
				BETA	00.6 /	CY 00640	8	8	0	8	8	9.	8	8.	8.	8.3	20	
A-41)					VAL = -5.05/	CYN	00232	.00236	0.0373	.00522	.00584	.00522	00206	.00343	.00365	.05237	00043	
TABILATED SOURCE DATA, LARC OFT667 (TA-41)	ಜ				GRADIENT INTERVAL =	(B) (CB)	10040	97000	00000	eaccu.	nFn57	621:110	6 CCC -	- 01043	.05013	02000	00004	
DATA, LARC	IAA1 TIPISIPZ				2.10 GRA	ð	03600	00617	20017	11200	מואנט.	המפפח ר	17094	13061	19201	22.20	02420	
SOURCE	LRC 8 TPT 667 1A41			INCHES INCHES INCHES	RN/L =	5	.45772	40404	C	44637	44701	44086	4666	11004	43643	76034	.00031	
TABULATE	180 0 1	•		976.0000 .0000 400.0000	0 /22	z	93438	72464	54593	38497	22782	06746	57664	21557	35121	47919	.06226	
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			DATA	S YNGP	3	BETA	.05653	12200	.00151	.55588	.05457	.09567	.02038	.52211	.51925	26010.	103501	1
			REFERENCE DATA	SQ.FT. INCHES INCHES SCALE					·	·	Ī						•	
74			ROTE	2690,0952 1295,3959 2005,0951 20155,			-12.356										10.945	EXPORE L
CATE 12 JUL 74						Ş	1.255	1.251	1.251	1.251	1.255	1.255	1.255	1.255	1.251	1.251	1.255	

TABULATED SOURCE DATA, LARC 6FT667 (1A-41)
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LRC 8 TPT 667 1A41 T1P151P204

(R@8005) (29 JAN 74)

PAGE 12

PARAMETRIC DATA

.000 RUDDER = -20.000 ALPHA = 976.0000 INCHES .0000 INCHES 400.0000 INCHES

21/ 0 RN/L = 3.17 GRADIENT INTERWL = -5.00/ 5.00 RUN NO.

. 3353 . 3556 . 3656 . 40240 . 44696 . 5376 . 5376 . 5376 . 5376 . 5376 . 5376	00492
27832 27832 27832 27833 27903 27446 27446 27596 27596 28025 28328 28328	.00007
CL 09316 10185 11240 12863 14691 14691 13619 12136	10/25
CY .38681 .30920 .22612 .14239 .05671023611230287312873128731	44371
CYN 13761 01390 04357 00657 .02936 .07061 .11272 .15101	.01794
CBL .04616 .03674 .02519 .01256 00037 01195 02448 03933 05319	06904 00588
CLM .04947 .05841 .07850 .08641 .09189 .08881 .07678	.0091
CA 27711 27786 27786 27818 27860 27486 27925 28270 28359	.28713 .00005
00 09485 10364 11422 12715 14036 14033 13824 13824	10936
ALPNA 36538 37266 30453 41059 41059 41078 41078	41846
-6.586 -6.511 -6.511 -4.552 -2.181 006 171 171 006 -	10.891 RADIENT
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	4 2 2	ALTIN OF STATE	5 6		PORES	13852	.05514	16814	.42549	07266	.29899	24302
8	-10.75	16030-			2007	04210	14418	13759	.34109	07488	\$0662.	25039
ē	-6.573	02) cZ*-	, 6 1		110634	CACA	13057		24989	08432	29720	28372
5	6.365	23973	ត្ត ខ		10007	2000	0.677	06057	16197	09456	.29419	32143
5	4.309	-,26522	5,		6,635	60000	1010	104.787	17.02A	10638	29015	36663
.	-2.124	27674	Ħ.		10692	01000	0.406	10620	04080	11595	28602	-,40539
66	18.	28413	7		-28545 -	260.00	COTTO-	07438	-11558	11368	28886	39353
66	2.099	29009	: ·		92992	16990	04499	Sake.	21481	10351	29510	35077
66	4.268	29075	i.		10402	4.7.4	08468	16442	30465	09337	30064	31056
5	6.365	2915/	5 8		1000.	139R7	063A7	19310	38536	-,08799	30409	28935
6	8.528	76962-	ž 8		20,000	71877	07440	7176	47144	08691	.30838	28182
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T667 (1A-41) PAGE 13	OE (R96005) (29 JAN 74)	PARAMETRIC DATA ALPHA = .000 RUDDER = -20.000	
TABILATED SOURCE DATA, LARC 0FT667 (1A-41)	LRC 8 TPT 667 1A41 T1P151P200	.1A . YMGP = 976.0000 INCHES . YMGP = .0000 INCHES . ZMGP = 405.0000 INCHES	
CATE 12 JU. 74		REFERENCE C.1A SREF = 2690,0000 89.FT. LREF = 1290,3000 INCHES BREF = 1290,3000 INCHES	SCALE

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00	CLM CBL CYN	. 02114 .0655120279 .4761304832 .33850	. 01855 . 0525016642 .3810304237 .33666	. 0374 12455 . 28267 03780 . 33081	. 02094 07797 .18418 04194 .32484	. 05050 - 05050 - 05058 - 05058 - 31830	. 18530 - 73500 - AUTO AT - 18530 - 15590 - 15	- ACTOR - ACTOR - CROSS - CT. LO CT. CO CT. CO CT. CO CT. CT CT CT. CT CT. CT CT. CT CT. CT CT. CT CT. CT CT CT. CT CT CT. CT CT. CT CT. CT CT. CT CT. CT CT. CT CT CT. CT	.0276402843 .0897613001	.0185904580 .144012407004929	.0174406043 .187063342805043 .33575 -	. 01639 07222 .22244 42462 05292 .34351		00032	RN1 = 2.05 GRADIENT INTERVAL = -5.00/ 5.00	60 13 %3 NAS 180 NAS	- TIN - 11017 - 11017 - 11010	104338 .Urack	.03986 .0593016818 .3959805554 .	. 03962 .0425712494 .2937505387 .41934	. 04433 .0240407664 .1892905986 .41419	. nsee4 nose0 ns402 07650 41141			- 24485 - 07136 -41824 - 24485 - 07136	- 15055. A3073 - 40404 04000 14440	THE COLOR CONTROL STATE STATE CONTROL	43497 . U4196 U8283 C524 C5497 C4349 C4349 C4549	
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RN/L =	5	33824	33644	CYUEL	30.05F	10101	10010	.3136/	.32574	.32659	33547	UCE72	15050	.00032	RNYL =	3	5	.42978	.42860	41900	41381	44001	40765	41076	01014	0//140	43025	.43497	.43858
1 NO. 197 0	8	PU-05000	00000	04440	04140	0.040	. 13cu	06190	05869	55132	05226	08/400	0000	00101	NO. 17/ 0	ć	5	-,06262	-,05804	05642	0,630	17044	10000	16190.	2048U-	0/413	07250	07049	07569
25	YHQ IV	CEUCK -	9006	10697	56112.	27333	27896	28695	29607	30274	31379	2006	3603	00331	RUN	i	ALMA A	36483	36035	14074	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	310000		261/6"-	1976	38065	38964	39519	42124
	DETA	100	Ke 6		1/4-0-	982.7	-2.187	016	2,146	4 365	818	1110	870.8	10.815			BETA	-11.020	4	E 647	110.0		-2.2.5-	52n*-	2.118	4.357	6.541	8.742	CEO 114
	3		3	10.	100	200.	000	955	500		9	660.	669.	20 6 .			Đ	086	9	106.	5	200	6/6.	6/6	.978	.978	.980	976	060

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LARC 8FT667
SOURCE DATA,
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CATE 12 JU. 74

LRC 8 TPT 667 1A41 T1P151F204

(Re6005) (29 JAN 74)

PARAMETRIC DATA

RUDDER = 80.

ALPHA

2.11 GRADIENT INTERWAL = -5.00/ 5.00

RN/L =

RUN NO. 18/ 0

.45241 .4526 .45366 .44812 .44812 .44861 .45330 .46337 .00009

C7 .37316 .27346 .17751 .07698 -.11496 -.21546 -.41532 -.51453

CYN
-.13639
-.10264
-.06485
-.01923
.02569
.17799
.15793
.22564

CBL ..05897 ..04270 ..02531 ..02531 ..02709 ..021037 ..02104 ..02104 ..05109 ..07825 ..00205

.01864 .02087 .02502 .02502 .03301 .03065 .02208 .01748 .00897 .00897

CA...46206...45832...44732...44733...44733...44733...44733...44733...45232...45232...45232...46535...46556...000008

CN -.04516 -.04566 -.045671 -.05131 -.051547 -.05164 -.054615 -.044615 -.05164 -.05164 -.00000

ALPHA
-.46209
-.44711
-.43891
-.44667
-.45972
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BETA -8.934 -6.636 -4.439 -2.163 -.032 2.174 4.399 6.572 8.912 11.164 GRADIENT

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CL -.04145 -.04106 -.04323 -.05504 -.04502 -.04502 -.04502 -.04502 -.04502

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PAGE

976.0000 INCHES .0000 INCHES 400.0000 INCHES

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2690.0000 50.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

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CATE 12 JUL in

LRC 8 TPT 667 1A41 T4P6S1P201

REFERENCE DATA

(Re8006) (29 JAN 74)

PARAMETRIC DATA

900. .000 RUDDER = BETA

976.0000 INCHES .0000 INCHES 400.0000 INCHES VARIO VARIO SREF = 2690.0000 SQ.FT. LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0150 SCALE

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GRADIENT INTERVAL =	ਵੱ
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CD L/D 3118 .42276 -1.72953	.36967	.32891	.29519	.27447	.26034	.25262	.25267	.25860	.27476	.30170	00464
CY CL S12 .0092473118	.00808	.00353	00067	00249	-,00849	01145	01303	01101	01005	00774	00147
CBL CYN .0024600512	.00143	.00044	-,00046	00062	76000-	96030*-	86550	05051	-,00018	71000	00006
CA CLM .25880											
BETA CN 0153280187											
MACH ALPHA											

RN/L = 1.89 GRADIENT INTERWAL = -5.00/ 5.00 30/0 RUN ND.

8	3	.44249	COLOL	30000	.33870	.30637	20407	10004	.27140	.26450	27002	21882		.31311	.35056	.0509100438 .17280
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PAGE 16	(RQ8DD6) (29 JAN 74)
TABILATED SOURCE DATA, LARC 8FT667 (1A-41)	LRC 8 TPT 667 1A41 T4P681P204
CATE 12 JU. 74	

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PARAMETRIC DATA	BETA = .000 RUDDER =
	976.0000 INCHES .0000 INCHES .400.0000 INCHES
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REFERENCE DATA	SECF = 2690,0550 SQ.FT. LREF = 1290,3500 INCHES BREF = 1295,3050 INCHES SCALE = .0150 SCALE
	KEF : SEF :

900

ALE =	.0150 \$6	SCALE										
		25	Š	0 /63	RN/L =	2.00	PRADIENT INTE	RVAL = -5.0	00' 2'00			
			3		2	2	ē	Č	გ	ರ	8	2
Ş	ALTA	DE.18	5		5		10001	10355	.00482	74055	.48527	-1.52605
206.	-11.546	00426	82	279	22/20	30000	41000	90776	10200	40173	17.177	1.3930A
106	-9.239	09607		ž	.32426	.27080	00200	- 20470	2700	24444	32706	10001
5	130.3-	00719	48	853	.31738	2002	.00166	00264	.00489	- 4040	93616.	036111
	909	- 00459	.33	299	.31276	.13656	.00107	.00048	•0000	30994	33656	915/0
3	90.4	90000	Ó	2	30690	.07692	.00061	. CC343	00357	17824	.31479	56621
20.	-K.440	90000	04040		4.00k	D2063	00003	.00512	00748	05139	.30233	16998
668.	246	20,000	֝֞֞֝֜֝֞֝֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	9 4	11300	1020	1 0003	UNTRR	01158	.07429	.29778	.24947
99	1.952	.01824	3	2	1000	13040.	10000	2000	01010	1001	3000	.61554
500	4.208	.02223	iz.	E.	.29414	1963	ocn/in*-	eteno.	61310	31000	70000	91100
800	6.483	.01642	.22	786	.29591	12832	00026	2/200	nnann	66262	10101	1,000
8	A02	70010	4	49	.29898	17287	.00101	.00115	00442	.39875	3020	15000 T
660.		00000	*	50	30044	21122	.00084	00019	00311	.49286	.39971	1.23305
.899	10.02	00000		3 5	***************************************	10644	a turn	55000	00154	.05646	00349	.17460
	GRADIENT	.05315	Ş	*	17700-	5	21000					
		5	Ş	0 /82	RN/L =	2.05 6	GRADIENT INTER	RWL = -5.0	0/ 5.00			
		•		·))							
į		72.30	5		5	Š	형	C	Շ	ರ	8	2
5	4 E-14	DC 14	300	9	72507	36200	17100.	00146	.00041	78337	.58037	-1.34976
978	-11.900	32cm.		} ;	07007	27076	90,500	AC100	ONTA B	61284	.51121	-1.19879
979	-9.547	.00121	1680	*	10001	10100	60100	0000	1000	45914	.46087	99626
.981	-7.17	00275		3	. 28993	16103	90000	93800	01050	3216K	42426	75794
980	7.907	00275	35	8	.39520	.14778	.0.011	00000	96700-	2000	3000	80200
976	-2.687	00043	215	%	39001	.0960	00034	.0013	\$ 5000°	-,60113	00000E	9150
070	376	.01222	9	5	39028	.05169	00127	.00913	01242	-,08405	PODEC.	COC 130-
	100	- U20A9	150	9	39050	00792	00122	.00923	01513	.04384	.39219	.11179
9	136.1	0061	2	5	39612	08276	00124	.00755	01512	.17859	.41017	.43540
500	91.4	99.0	*	2	39195	14165	-,00002	.00226	00701	.30543	.42868	.71249
6/6:	104.0	660100			40740	18840	.00045	.00194	00573	.42060	.45619	.92200
.978	8.691	.01208	į	• •	40.00°	99686	PENNA.	.00493	00786	.51667	.49024	1.05391
.977	10.904	.01023	5	3 1	0000	102.05 103.05	91000	טטטעצ	00156	.05471	-,00157	.13190
	GRADIENT	.00348		۲.	otoon.	1640	A 10001-	*****	*****	•)

DATE 12 JUL 74	JU. 72				TABILATE	D SOURCE	DATA, LARI	tabilated source data, larc oft367 (114-41)	(FF)			Å	PAGE 17
					- CEC	LRC 8 TPT 667 1A41		14P651P201			(Re8006)		(29 JAN 74)
	REFER	RENCE DATA	7							-	PARAMETRIC	DATA	
SAEF :: LAGF ::	2690.0000 1290.3000 1290.3000	SQ.FT. INCHES INCHES	736.7 736.7 736.7	11 11 11	976.8000 2000.	D INCHES 3 INCHES 5 INCHES				BETA =	000•	RUDDER =	000
SCALE :	0190	SCALE	3	ğ	27, 0	RIVL =	2.11 GR	GRADIENT INTERVAL =	/WT = -5.00/	00. 5.00			
1			≤	Ō		5	ð	ਵੱ	Š	5	ರ	8	5
1.201	-12.416		.01133		94443	.45789	.37725	00000	.00524	-,00007	-,82389	.65024	-1.26706
1.201			1571	•		.45398	.20402	.00036	.00287	00427	-,63696	.57205	-1.11346
1.201		•	1125	7		.44958	.21083	.00041	60200	00167	-,47377	.51484	92022
1.201		•	1496	7		.44523	.15163	.00036	.00332	00167	33691	.47693	70641
1.251		٠	1051	,		.44135	9968 0.	00026	.00503	00468	-,19582	.45129	43392
1.201			1941	3		.44131	53620*	00048	.00521	00747	05792	.44179	13110
1.201			303	d		.44046	02660	00122	.00798	01371	.07053	.44298	.15923
1.201			989	'n		.43997	08402	00110	.00588	01271	.18785	.45489	.41296
1.251			824	L.		.43105	13695	-,00063	.00478	00941	.30691	.46869	.65483
1.251			159	4		.42054	19346	60000*-	.00388	00.567	.41600	70684.	.85061
1.231		•	202	õ		.41616	22458	00061	.00433	00227	.51439	. 52403	.98160
			414	Ö	•	.00022	02494	00014	.00023	00131	.05529	.00052	.12234

CATE 12 JU. 74	JU. 72			TABULA	7ED SC	XRCE 0	ATA, LARC	TABILATED SOURCE DATA, LARC 8FT667 (IA-41)	(F-41)			PAGE	≅
				רצכי	141 8	LRC 8 TPT 667 1A41	41 14P651P201	19201			(Re6007)	7) (29 JAN 74	N 74)
	REFEREN	TENCE DATA									PARAMETRIC DATA	DATA	
	}										000	+ 63461	
	2690.0000 59.FT. 1290.3000 INCHES 1290.3000 INCHES	SQ.FT. INCHES INCHES	13 AR P	= 976.0000 = .0000 = 400.0000		INCHES INCHES INCHES				E E			
SCALE =	ne 10 •	7	S NO.	. 36. D	_	**************************************	3.18 GR	GRADIENT INTERVAL = -5.00/ 5.00	WL = -5.(90.8 /00			
•		478	•	8	ð		¥	_ව	Š	ઠ	ರ	8	2
Đ.	BEIA		. C	N9714	22.	27263	.04686	\$0650.	17310	.41788	09533	.27327	34886
17.0	-10.355	-	9	10484	2703	5	.05254	.05092	14895	.34292	10302	.27104	38008
1 5	45.0		9	11163	58	26778	.05914	.04041	11802	.26437	10963	.26852	40901
	186		:	12185	.26	808	.06834	.02719	07974	.17697	12003	.26690	44972
	2.2.8		S	13538	.26	366	.07541	.01367	-,04222	.09263	13349	.26462	50446
3 5			56	14595	.26045	045	.08112	.00165	-,00366	66800	14395	.26133	35046
	2.132		12	14289	.26142	142	.07703	01018	.03638	70770-	14093	.26248	26966
	4.292		16	-,12903	.26465	465	.06628	-,02292	.07425	16936	12709	60023	447833
	6.485		35	11913	26	687	.05601	03573	.11066	24594	11717	57,02.	43/03
5	8.671		2,	10891	.26	.26878	.04602	04768	.14633	33083	10695	70802.	C 10RC*-
679	10.884		ž	10456	.27203	203	.03816	05701	17607	41334	10252	09212.	100010
	GRADIENT		¥	00101	00024	024	00011	00572	.01/81	03891	0000	-,00066	11000
		_	25	NO. 35/ 0	RNAL	11	1.89 68.1	GRADIENT INTERWAL = -5.00/ 5.00	WL = -5.0	00' 2'00			
	į	į		ð	5		3	ē	Z.	Շ	ಕ	8	S
	AL AND	ALTTA 26539	40 40	07358	.2937	371	.03436	.06434	19511	.44739	07222	.29405	24561
200		•	8	07466	.29133	133	.03656	.05320	16324	.36378	07333	.29167	25142
6	6.469	·	12	08043	.28731	151	.04126	.04298	13190	.28197	07911	.28768	27499
	300	•	90	08905	82	126	.04641	.03055	09472	.19488	08773	.28167	-,51140
	-2.174	·	85	09892	.27	573	.05183	.01538	04989	10127	60.60*-	12072.	20000-
008	024		ಜ	11064	.27131	131	.05816	.00219	00530	201042	10928	27775	C6104.
200	2.105	Ī	7.	10746	.27	151	.05315	01068	.0001	22190-	-1000	61413	660000
. 799	4.230	·	16	09533	.27	876	.D4183	02524	.08615	1(2)(3	08280*-	*26.20	2070E
666.	6.376	•	#	08594	.28311	311	.03201	03882	12750	+9C92*-	08449	666933	06163
000	8.517	•	8	07939	28	818	12424	04921	.16037	1.34984	07788	80000°	- 25940
799	10.667	•	24	07725	.2924	247	.01872	06143	.19658	-44U5U	100000	6263.	- 00347
,	CRADIENT	00302	23	-,00099		ä	00037	00645	•1120•	04329	•••	20000	***************************************

	(R08007) (29 JAN 74)
17 (IA-41)	
TABILATED SOURCE DATA, LARC 8FT667 (IA-41)	LRC 8 TPT 667 1A41 T476S1P204
	CATE 14 JUL :

LRC 8 TPT 667 1A41 T47651P201

	DATA	a a guard				
	PARAMETRIC DATA	5	3			
		•	:)			
		į	Ě			5.0
		1	ŧ			-5.00/
LAC 6 11 1 20 11 11 11 11 11 11 11 11 11 11 11 11 11						TAY TO BUT 3 1.99 GRADIENT INTERVAL = -5.00/ 5.00
•						\$
			INCHES	INCHES		# VND
-			1 0000.976 = 976.0000 I	0000.	*00*00a	G / 7.
			11	**	4	•
	į	2	S C	dy	Z	
		REFERÊNCE DATA		LREF = 1299.3599 INCHES	BREF = 1295.3050 INCHES	SCALE = .0135 SCALE

		NUR N	NO. 34/ D	RN/L =	1.99 GRAD	Gradient interv	ML = -5.00	90°c /		(-
			į	į	3	ē	3	Շ	ರ	3	
-	BETA	ALPHA	3	5		90.410	22572	.49267	05111	.33673	151/B
9	ASA DI	31288	05295	33644	05010*	2000	4000	\$000E	04513	.33132	13620
200		24. 32	FA697	.33107	.01551	C/100.	COOE !-		0300	12263	12062
5	-8.078	30.00	24040	32243	.01218	.04879	-,15375	ectic.	20000-	24.46	7CLC+
9	-6.513	-,28696	CC0+0	*****	900.00	114507	11230	.21732	03864	20016.	-1636+
500	-4.356	28313	04019	.31333	enoto.	94040	05005	.11634	04478	.30631	14619
	0	28115	04629	35658	.01269	01040	00000	74047	15589	.30332	18425
250	261.3-	02700	115744	.30303	.02259	.05271	03420	1010	2000	30508	16463
00 6	620	3C#62°-	******	3000	01535	01251	.04948	09338	••0000	2000	
67.4	2,121	- 30049	D5214	200000		00000	10365	19776	04099	.31132	13166
	280	35543	04265	.31110	C 400	0.6020-	2770	20203	54052	.31860	12717
2		30.67.5	1,0227	.31837	5151.	04350	0141.	00101	07770	10 FA F	13716
660.	0.44.0		07770	42618	16000	05737	.18889	38/92	0.440		
668	8.613	53441	04000	2000	0000	CRA76	22394	48093	04693	.33329	- 14001
900	16,795	34987	04897	.3330	00000°		00614	14815	-,00049	05017	50164
660.	COADTENT	05286	00050	00018	00003	557.30	110201				
		2	NO. 337 D	RNL "	2.05 GRA	GRADIENT INTERVAL	WL = -5.00/	00'5 /0			
						,	į	8	5	8	2
•		AH PHA	3	ర	3	ਰ ਹ	Z S	1000	. n6228	42447	14666
5	DEIA	20617	06511	42404	.m.	.08529	23882	9226	20000	424.70	- 12770
.98 <u>0</u>	-10.980	1000-		F7 + 67	C90EU	.07149	19876	.42280	-10080	2174	
086	-8.792	37101	-,00039	24.04	49000	04631	15792	.32252	04983	.41977	12130
683	-6.589	-,35903	05240	41040	2000	90020	11150	.22182	05473	.40290	13585
8	4.412	35928	05726	.40255	.02284	39000	10003	11808	06648	.39532	16816
	212	36688	106901	.39489	2000	6000	00000	חחפיא	08065	.39231	20557
966	50	38052	08325	.39177	.05032	, UUCZ4	100000	70007	06220	39440	19751
	37. 6	38743	00056	.39386	.04543	01939	1500.	90900	06337	39950	15862
	9.5	38612	06606	.39906	6181	03313	20101	30208	1,06116	.41066	14893
	200	39755	06401	.41022	.02834	16060-	00401	00.00*1	0.6979	41906	14250
300	32.	41087	06272	.41862	.02433	06602	.19400	060040	16104	42414	14603
796	19,00	70027	-,06514	.42366	.02045	08074	c2) c2.	-,51605	02100	- nnn36	00345
.985	10.927	1354.	00134	00037	.0001	00826	.02531	04909	00136	2000-	
	EKA DIENI	*******									

PAGE 19

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RUDDER =

PAGE 20	(R&&007) (29 JAN 74)
TABULATED SOURCE DATA, LARC 8FT,-667 (1A-41)	LRC 6 TPT 667 1A41 74P631P201
CATE 12 JU. 74	

900

.000 RUDDER =

ALPHA =

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690,0500 SQ.FT. YMRP = 976,0000 INCHES LREF = 1290,3550 INCHES YMRP = .600.0501 INCHES BREF = 1290,3550 INCHES ZMRP = 400,0509 INCHES SCALE = .6150 SCALE

RUN ND. 32/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/5.00

1.00 08385 08395 09253 11119 11119 09172 08325 07903
CD
CL 03632 04465 04445 0473 04073 03736 03570 03597
CY .39681 .30173 .20354 .10382 .0093608803184872828638188433784450
CYN 16586 13178 04792 00373 .04392 .06831 .12893 .16395
CBL. .06846 .05384 .03689 .01881 .00251 .01404 .03121 .04782 .0520
01578 01578 01578 02095 02340 01118 00166 00366
CA .45904 .44764 .44163 .44017 .44039 .44375 .45850 .45860 .45887 .60041
CN0426 0427 0497 05248 05110 0435 04002 04002 04002
ALPM46759456444494645444453274582145957
BETA -6.924 -5.687 -4.445 -2.239 -2.239 -2.173 -3.64 -3.76 -3.76 -3.76 -3.76 -3.76 -3.76 -3.76
1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201

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(14-41)
SOURCE DATA, LIRC 6-T667
SOURCE DATA,
139.77 160
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14
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PAGE 21	(R&8053) (29 JAN 74)	PARAMETRIC DATA	ALPHA = .000 RUDER = .000
IAP. LA IED SOURCE DATA, LINE 6-T1667 (1A-41)	L+C 8 TFT 667 1A41 T2P451P201		976.0000 INCHES .0000 INCHES .400.0000 INCHES
CATE 12 JU. 72		REFERENCE DATA	SREF = 269C.0000 S3.FT. XMRP = LREF = 1295.3500 INCHES YMRP = 3REF = 1259.3500 INCHES ZMRP = SCALE = .0155 SCALE
C1 TE 12			SOFF

		S. S.	NO. 41/ 0	 ₹	3.18 GR	FRADIENT INTERVAL =	RWL = -5.00/	20.c /00			
5	BETA	AL PHA	3	5	3	ਰ	Š	5	ರ	8	S
599	-10.937	37956	09796	.27227	.04739	.05914	16811	.41801	09615	.27292	35230
609	-8.775	38581	10331	.27058	.05230	.05131	14622	.34666	10151	.27126	37423
.599	-6.572	38512	11175	.26741	.05954	.04017	11411	.26249	10995	.26816	41004
609	-4.426	39041	12221	.26545	.06835	.02762	07922	.17992	12040	.26628	45216
200	-2.216	40068	13173	.26310	.07447	.01334	03967	.08953	-,12989	.26401	49198
599	033	43386	14963	.26056	.08189	.00194	00379	.00995	14766	.26169	56425
599	2.145	-,42669	14157	.26204	.07578	01054	.03689	07971	-,13961	.26309	53567
599	4.297	42347	13109	.26510	.06648	02282	.07248	16011	12913	.26606	48533
.599	6.488	41425	11674	.26735	.05478	03565	.10773	24415	11480	.26819	42806
60	9.662	42151	10992	.26937	.D4578	04778	.14310	33160	15794	.27017	39953
8	10.867	42621	15299	.27256	.03764	05715	.17144	41248	10096	.27332	36937
	COAPTENT	FCAUR	00127	BUJUU -	0001	00572	.01743	03A96	00125	0006	- ODARA

		RUR	RUN ND.	0 /07	RN/L =	1.89 GR/	RADIENT INTER	INTERWAL = -5.00/	00' 8'00			
ğ	BETA	ALPHA	3		5	ð	ਰੰ	Š	გ	ರ	8	5
.799	-10.739	26433	0		.29257	.03437	.06425	18998	.44612	07222	.29290	24658
8	-8.595	26206	0.1		29070	.03623	.05310	15917	.36278	07342	.29104	25227
60	-6.439	26365	a,		.28608	.04185	.04253	12764	.27828	08038	.28645	28060
799	-4.312	27036	Ö,	09046	.28050	.04680	.03034	09195	.19315	08914	.28092	31731
200	-2.166	27638	Ö		.27560	.05261	.01535	04845	.10069	-,19824	.27657	-,35584
799	045	29541	-		.27138	.05943	.00220	00456	.01007	1!128	.27195	45918
799	2.089	29160	±:-		.27453	.05386	01108	.04074	08347	15594	.27597	38512
009	4.234	29337	9		.27853	.04267	02540	.08545	17644	09518	20672.	34112
.799	6.358	29145	ਰ	٠	.28357	.03199	03892	.12486	26439	08339	.28400	29332
909	6.493	29692	0.		.28839	.02374	04934	.15699	34863	07657	.28879	26513
.799	10.674	30729	0.1		.29248	.01837	06145	.19203	43905	07509	.29289	25639
	CRACIENT	"0287	9		00023	00033	00646	.02080	04325	00092	00022	00359

CATE 12	JU. 72		TABI	LATED	SOURCE	DATA, LAR	tabulated source data, larc oft667 (IA-41)	IA-41)			846	x
			5	کر 10	LRC 8 TPT 667 1A41		T2P4\$1P201			(80006)	18) (29 JAN 74	. 27 M
	REFER	RENCE DATA								PARAMETRIC DATA	DATA	
\$40°	2690.0000 1290.3000	SQ.FT. XXRP	# #	.0000	976.0000 INCHES				ALPHA :	900•	RUDDER =	000
BREF =	1290.3955 .0159	INCHES 2		400.0000	INCHES							
		25	1 NO. 39/ 0		RVL =	1.98	GRADIENT INTERMAL = -5.00/ 5.00	WAL = -5.0	90' 8'00			
1		A 824	3		5	3	ð	ŧ	5	ರ	8	5
	•		05573	. •	.33576	01970	.07299	22251	.49354	05386	.33607	16027
000		•	04811	•	.32914	.01582	.06057	18628	.39882	04637	.32939	14078
568		Ĭ	04304	•	32110	.01336	.04858	15096	.31044	04142	.32131	12889
66			04113	Ī	.31283	.01155	.03504	11085	.21921	-,03958	.31303	12644
668		•	D4844		.30550	.01611	.01861	06023	.11736	04691	30574	15344
668		•	05941		30258	.02307	.00257	00321	96800.	05784	.30289	19096
8		•	05468		30660	.01652	01249	.04952	09378	05306	.30688	17289
668		•	04330	•	.31042	.00477	02893	.10259	19750	04164	31065	13405
668		•	04122		31802	.00069	04379	.14623	29274	03947	.31825	12402
66		·	D4423		.32682	00066	n5772	.18720	38906	04234	.32707	12944
668		•	05222	•	.33315	00019	2.3863	.22104	48052	05014	.33347	15036
	3	•	-,00049	ĭ	.00017	00061	00735	.02481	04829	00048	60017	00161
		5	NO. 38/	0	RNL =	2.05 GR	GRADIENT INTERML =	WL = -5.00/	00' 2'00			
		1	5			2	Ē	C	٥	đ	8	5
	-11.039	•	06529	•	42111	.0347	.08508	23576	52005	06241	.42154	14806
		•	05930	•	.41622	.03236	.07101	19608	.41906	05657	.41660	13578
2			05523	•	.40795	.02987	.05617	15553	.32025	05263	.40829	12891
196		•	05932	•	.39866	.03276	.03879	10876	.21879	05679	39905	14233
C86		·	07330	•	39301	.04286	.02032	05666	.11444	0707:	.39348	17978
979			08275	•	.38928	.04924	.00225	00172	.00832	08016	.38983	20564
979,		Ť	07793		.39045	.0202	01556	.05411	09955	07529	39096	19257
676.		·	06654		39670	.03062	03301	.10511	20216	06385	.39714	-16078
979.			06172	٠	40472	.02490	04971	.15040	30147	05892	.40513	-14544
.979	6.691	•	06114	•	.41457	.02106	06530	.19180	40098	05816	41500	-14010
.977	10.692	·	06433	٠	.41578	.01699	07991	.23375	50495	06119	.41625	14700
	GRADIENT	00302	-,00087	i	00030	00024	00823	.02470	04843	00085	00029	0022

1,0 -,14606 -,13576 -,12891 -,12891 -,17976 -,19257 -,16076 -,14500 -,14700



LRC 8 1PT 667 1A41 12P451P2OE

CATE 12 JUL 74

PARAMETRIC DATA

(R@6006) (29 JAN 74)

60.

.000 RUDDER =

ALPHA =

976.0000 INCHES .0000 INCHES 400.0000 INCHES MARP TARR REFERENCE DATA

SHEF = 2690.0000 34.FT. LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0150 SCALE

		RUN NO.	NO. 37/0	RN/L =	2.12 GRAD	RADIENT INTERVAL	WL = -5.00/	2.00			
			į	3	3	Ē	CAN	გ	ರ	9	5
Ç	BETA	AL HA	5	5	5	10000	16197	ROAKA	L. DARRY	24543	12160
	AC-0 0.	14750	04423	4509	2410.	2997	13001*-				
5	96.0		00000	11132	785	.05338	12869	.29743	04101	.44155	09287
1.72 22.	-6.692	44384				CESEU	CLBR72	19894	04141	.43571	09504
1.203	474	43532	04472	.43338	.0000	3000				10001	71201
		10017	CA740	V3967	.02122	.01850	04479	.1011	40440	.46393	*Tent.
1.23	75.22	1000 T		00001	63560	90600	- 00151	.00656	04926	.42828	11501
1.203	633	44526	03238	42/27	30030	90000		0000	0.470	49789	10001
		- 461 K7	78080	42714	50010	01396	.04230	100011	55.	30.34	10000
1.233	6.143		2770	U+CE.	01171	n3124	.08652	8417	04115	.43244	09516
1.203	4.366	45921	-,04404	0170	*****		10701	72.00	Valeti.	43676	08528
272	6.594	46875	04081	43638	egene.	04810	.16.00	1000			10000
		1007	FF 170	44110	00018	06327	.16218	38203	+.US/34	44144	1.0000
1.201	6.633	11764-				43.60	4000	71327	A7870 -	70277	08763
. 201	10,036	50468	04263	.44171	-,00244	1110	onor.	-			68000
	COAPTENT	00283	~00012	00041	00085	30759	.01982	-,04321	00010	00041	0000

DATE 12	JU. 74			TAB	LATED	SOURCE	DATA, LA	Tabilated Scurce Data, Larc eft667 (IA-41)	(14-41)			_	PAGE 24
				٠.	R 8 7	LRC 8 TPT 667 1A41		72P451P201			(Re6	(Re6009) (29	(29 JAN 74)
	REFER	ERENCE DATA									PARANETRIC DATA	IC DATA	
SEEF SCALE SCALE	2690,0000 1290,3000 1290,3000	SQ.FT. INCHES INCHES SCALE	YMRP YMRP ZMRP		.0000 .0000 .0000	INCHES INCHES INCHES				BETA	960.	RUDDER =	900.
		***	RUN NO.		46/0	RIVL =	3.18	GRADIENT INTERVAL =		-5.00/ 5.00			
1010	ALPHA	BETA		3	J	Α.	ð	ਵੱ	3	5	ರ	8	5
.650	-11.684		7	61695		.26507	.34130	_	-,00596				
169.	-9.588	•	پ	67045		.26697	.28140		00354	_	·	.37492	
. egg	-7.303	٠	S.	53389	_	.26666	.2803	.00064	00102	.00505			
.69	-4.999	•	5	~.39793		26415	.1760		00018	_			٠
.631	-2.769	•	<u>.</u>	27581		.26246	.13065		.00379				95403
609	501	.01050		16037		.26534	.08769		.00559		15809		
609	1.743	.02346		04091		25498	.04236	Ī	.00611				19185
.600	4.017	.03033		.08937		24716	00525		.00670				.28414
609	6,332	.02228	9 0	.21411		23645	04763	00059	.00486	_			.7220
. 599	8.591	.01587	_	34314		22571	60960°-	60000	.00355	Ť		_	1.11345
603	10.870	.01795	s	.48341	·	21294	15452	00005	.00519	01002	. 43458	30029	1.44722
	GRADIENT	•0500•	ø.	.05365	•	.00184	02000	00016	1,000.	00209	.04900	05496	.17028
		Œ.	RUN NO.	. 45/ 0		RN. =	1.89 6	GRADIENT INTERVAL = -5.00/ 5.00	RWL = -5	.00. 5.00			
ğ	ALPHA	BETA		3	J	_	3	ਰੱ	5	გ	ರ	8	5
799	-11.436	00883	_	78816	**	29468	.32769	.00107	00252	.00577	71430	.44476	-1.65605
.799	-9.147	05815	•	63717	7	29047	.26712	.00153	00355	.00647	•	38806	-1.50256
.799	-6.948	16700		50171	`*	.28536	.21396	.00107	00294	.00581	•	.34396	-1.34759
.799	4.739	00705		-,36565	**	.26080	.16037	•9000•	00137	.00395	·	.31594	-10050
. 799	-2.541	00420		23927	**	7647	.11136	.00050	00001			.28681	79068
.000	351	•6500•		12191		20275.	.06464	00027	.00402	•		.27276	44581
909	1.633	.01551		.00190	**	16551	.01240	00067	.00504		٠	.26543	02484
008:	4.013	.02076		.12615	ú	.26108	03309	00668	.00521	01274		.26927	.39948
.799	6.239	.01772		.26129	બં	25518	08334	-,00034	.00406	01054	.23201	.28206	.82257
	8.435	.01028	_	.38520	c,	25620	12873	.00057	.00264	00639	.34316	.31191	1.0022
.799	10.597	.00559	_	.49872	ů	26072	17240	.00061	.00154	00360	.44227	.34799	1.27092
	GRADIENT	.00344		.05598	9.	00230	02221	00018	.00083	00208	.05109	00471	11211

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DATA,
SOURCE DATA, LARC
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(14-41)	
TABILATED SOIRCE DATA, LARC 8FT667 (1A-41)	MCGINGET IAST TAR TOTAL TO I

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ואקפרות ו בא לאיי יר	DATA	RUDDER =	
CCORY	PARAMETRIC DATA	.000	
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24 S1 F2OI			
12			
LRC 8 TPT 667 IA41 TZP451F201		INCHES INCHES INCHES	
LRC & YP		XORP = 976,0006 INCHES YMEP = ,0050 INCHES ZMEP = 400,0500 INCHES	
		** ** **	
		1000 1000 1000 1000 1000 1000 1000 100	
	REFERENCE DATA	2895.0000 50.FT. 1295.3000 INCHES 1295.3000 INCHES .5150 SCALE	

		2	NO. 44/ 5	EN/L =	1.99 GRA	GRADIENT INTERVA	VAL = -5.0	6/ 5.00			
3	Y A	BFTA	3	3	ð	ਵੱ	£	ਨ	ರ	9	2
5	11.669	55841	63662	.32622	.34895	.00249	05407	.09670	75295	.49565	-1.53458
	186	61118	66194	.32445	.27330	.05225	00495	.00844	60015	.42858	-1.45197
	-7.12	-,55939	-,49792	.31891	725.02	.00155	5327	.00622	45455	.37918	-1.25:94
5	-4.858	-,05759	35515	.31335	.14292	.9515	.00022	.00227	32231	.34187	94279
	-2.650	52223	25521	.35635	.58397	.05053	.0321	05316	19252	31,739	65499
008	374	12620.	07036	35234	.02869	\$0000.	.00655	05938	06839	.35279	22587
00.0	1.864	272.0	.57131	.29539	03611	05055	.05531	01524	.06167	.29755	25525
60	4.769	51812	19672	.29450	58693	55532	73500.	57650	.17533	.35772	55978
6 9	6.285	21836	31038	.29622	12527	-,00063	78500.	00993	.27658	.32842	.e4564
	CH. A.	.01308	43699	.29915	16673	.00542	.50283	55753	.38777	.36567	1.57514
120	27.72	575685	55583	35122	25457	76000.	.00045	-,02270	.48513	.39855	1.21745
	GRADIENT	.00300	.06144	05227	02598	00015	.00543	00139	76550.	03396	.17193
		NO.	NO. 43/ 0	RN/L =	2.05 GRAI	GRADIENT INTERMA	WL = -5.00/	97 5.00			
	ě	DETA	ē	3	3	ē	Š	გ	ರ	ខ	5
		4	90216	7CFUY	36186	75.05	-,50109	07350.	78891	.57982	-1.36560
976.	166.11-	1100.	7550	40253	28418	30085	-,05050	.00028	62587	.51481	-1.21572
	(Ca. C.	00000	52875	39952	21367	Sciffa.	.90147	09050	47344	.46372	-1.52597
106.	400 W	ASEC0	.37071	39488	15296	00003	.00359	00236	33477	.42577	78627
100.	12.0	16000-	22874	39000	.19143	00045	.55585	-,00533	20989	.40346	52413
2,0	757	27900	09728	.38742	.05570	05147	70010.	01258	09414	.38625	24249
	1-857	62120	09670	38902	00397	00143	97600.	01587	.03732	.39039	.09559
6	A 6142	02406	.19655	39476	07549	76000-	.09706	01402	.16831	.40769	Zt .Y.
07.0	6.301	.01659	.33835	3931	13836	00038	.00353	50842	.29316	.42787	٠١٠ .١٦
970		01126	47531	.38940	18374	00001	.00474	76700	.40703	.45514	.89430
979	20.00	01126	.59230	.38458	22058	.00011	.00531	00854	.50954	.48897	1.54205
	GRADIENT	.00385	.06306	00000	02616	00007	.00015	00131	.05611	.00103	.13958

PAGE 25

SAU :: LAU :: BAU :: SCALE ::

12P4 S1 P2O1
1441
667
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(RG6009) (29 JAN 74)

PARAMETRIC DATA

= 976.0000 INCHES SCALE ... SCALE ... SCALE ...

REFERENCE DATA

000.		5	-1.22283	-1.14804	96444	74102	45974	15770	.14649	.40479	.65401	.87218	.99945	.12528
RUDGER =		8	. 59516	. 56052	.50574	.46662	.44109	.43051	.43048	.44037	.45432	.47747	.51186	-,00010
000.		ಕ	72778	64350	48776	34578	20279	06789	.06306	.17825	.29713	.41644	.51158	.05508
# # # # # # # # # # # # # # # # # # #	00'\$ /0	5	00450	00467	00199	00232	00498	10600	01306	01010	00777	00620	00136	00084
	VAL = -5.00/	Z.	.00324	.00358	.00252	.00380	.00554	.00695	.00748	.00379	.00264	.00296	.00014	-,00020
	GRADIENT INTERVAL =	ਵੱ	.00042	.00025	.00025	.00019	00028	00083	00113	00069	00038	.00031	.00049	00007
	2.11 GRA	ð	.32904	.28891	.21955	.15787	.09429	.03470	02169	07770	13038	:8623	21955	02474
DOD INCHES DOD INCHES DOD INCHES	RNAL =	5	.44268	.44033	.43692	.43321	.43043	.42985	.42830	.42658	.41848	.40913	.40532	00757
= 976.0000 = .0000 = 400.0000	0. 42/ 0	3	82940	73102	55025	38681	22453	07192	.07649	20911	.34579	.48375	59952	.06266
FT. 1969 HES 1769 HES 2959 LE	RUN NO.	BETA	.00521	.00467	-,00159	-,00499	00122	\$6800	.02239	.02453	.01978	.01265	.00455	.00392
2690.0000 59.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE		At Put	-11.185	-9.995	-7.586	-5.22	-2.858	537	1.791	4.077	6.382	A. 643	10.954	GRADIENT
# # # # W		٤	201	201	100	202	2	É	Ę	Ę	į	5		į

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ABULATED SOURCE DATA, LARC CF1.-667 (1A-41)

LRC 8 TPT 667 1A41 T1P101

(R86010) (29 JAN 74)

PAGE 27

. 69

PARAMETRIC DATA	BETA = .000 RUDER =
	• 976.0000 INCHES • 0000 INCHES • 400.0000 INCHES
	2002
REFERENCE DATA	SREF = 2690.0000 50.FT. LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0150 SCALE

RUN NO. 51/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

2.06635 -2.01644 -1.66553 -1.58724 -1.25782 -30409 -26371 -91163 1.54140 2.03921 -22056
28475 24445 21445 21079 18629 17091 14908 14509 14633 15790
58895 49341 39748 29568 12909 12909 12953 .12953 .22555
.01331 .01331 .01309 .01077 .01087 .00199 00082 00182 .00182
CYN00940007900052000535002730014800117001080031200387
CBL .00576 .00576 .00576 .00587 .00587 .00533 .00151 .00120 .00176 .00176 .00252 .00252 .00252
CLM .37461 .31327 .25161 .18215 .18211 .09223 .04592 05481 11079
CA .16682 .16553 .16553 .16536 .15626 .15626 .15625 .14042 .12723 .11154 .09641
BETA 01517 01968 012073 02518 0133 0069 .01524 .01574 .00671
ALPhA -11.028 -9.860 -6.621 -4.372 -2.322 -1.88 1.973 4.035 6.215 9.463
665. 695. 695. 695. 695. 695. 695. 695.

RUN NO. 50/0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	BETA	3	ರ	5	9	Z.	১	ರ	8	ያ
8	-10.700	00876	58629	.19428	.34820	.00315	00439	.00753	54003	.29976	-1.40156
8	-8.579	00866	48196	.18853	.28960	.00272	00287	.00601	44844	.25831	-1.73602
6	-6.524	01091	39820	.17906	.24326	.00276	-,00215	.00615	-,37528	.22314	-1.68184
8	-4.306	00965	29637	.17359	.18546	.00219	50041	.00399	28250	.19535	-1.44614
8	-2.277	00702	19499	.17006	.12823	.00192	.00028	.00235	18808	.17767	-1.05859
8	105	.00116	10191	.16447	.07691	.00144	.00095	00134	-,10161	.16466	61709
8	1.970	.01008	00649	.15801	.02407	.50122	.00037	00410	01191	.15769	07555
8	4.078	.01515	27160.	.14923	03081	.00149	00115	00455	.08088	.15538	. 52052
66	6.171	.01142	.19667	.14158	09052	.00219	00215	00222	.18031	16190	1.11371
.799	6.321	.00828	.28955	.14187	14110	.00255	00110	00207	.26597	.18228	1.45912
8	10.413	.00362	.37327	.: 4589	18439	.00279	00197	.00052	.34076	.21095	1.61533
	GRADIENT	.00318	.04590	00289	02553	00010	00007	00112	.04296	00475	.23397

LRC 8 TPT 667 IA41 TIPLOS

PARAMETRIC DATA

(R@0010) (29 JAN 74)

900

.000 RUDDER =

BETA

REFERENCE DATA

714 P SCALE:

976.0000 INCHES .0000 INCHES 400.0000 INCHES

		KUN NO.	NO. 49/ U	KIN'L "	1.99 6. 67	MADIENT INTERVAL =	WAL = -5.00/	25°c /0			
O	ALPHA	BETA	3	5	3	ਵੱ	Š	გ	ರ	8	Ş
668.	-15.882	00724	62964	.21402	.38074	.00414	00575	.00791	57792	.32904	-1.75638
106.	-8.741	-,00791	50803	.20865	.30873	.00345	00405	.00648	47039	.28363	-1.65848
808	-6.543	00995	39286	.20064	.24041	.00305	00284	.00599	36744	.24410	-1.50526
900	-4.397	01058	28205	.19402	.17664	.00261	00081	.00423	26634	.21508	-1.23834
909.	-2.246	00734	17382	.19574	.11489	.00171	.0004	.00198	16622	.19740	64202
9 28	127	.00158	06095	.18600	.05064	.00083	06000*	00138	06054	.18613	32526
.	1.961	.01343	.04399	.18093	00953	90000	.00143	00576	.03778	.18233	.20718
.899	4.211	.01767	.14453	.17871	06316	00001	00008	00571	.13102	.18884	.69380
.9 00	6.214	.01499	.23557	.17840	11312	.00049	00074	00421	.21488	.20285	1.05930
006.	6.365	99600*	.33676	.18512	17006	.00168	00022	-,00297	.30698	.22720	1.35115
669.	10.536	00023	.41358	.18615	20726	.00105	.00101	00089	.37257	.25864	1.44049
	GRADIENT	.00360	.04998	00188	02818	00032	.0001	00129	.04660	00314	.22931

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00' 2'00	5
WL = -5.00/	S.
GRADIENT INTERWAL =	ਵੱ
2.03	ð
48/ 0 RN/L =	5
	8
RUN NO.	BETA
	ALPHA

1.00 1.5544 1.45646 1.27656 1.00033 65322 26807 1.7957 .60551 93135 1.14788 1.27334
CD .40765 .36238 .32149 .28880 .27018 .25927 .25844 .27017 .28824 .31592 .3471600224
CL6332 52780 41040 17649 06950 .04641 .16359 .26845 .36264 .44206
CY .00002 .00204 .00204 .00031 .00557 .00636 .00638 .00638 .00638 .00638
CYN0012200104 .00077 .00278 .00422 .00422 .00423 .00141 .00213 .0065900616
CBL .00355 .07249 .00237 .00141 .00040 .00003 .000014 .00001 .00000 .00000 .00000 .00000 .00000 .00000 .000015
CLM .4455 .37374 .29346 .20962 .13589 .06824 00522 15103 21033 25821
CA .27662 .27662 .27148 .26515 .26264 .25903 .2566 .25708 .25903 .25903 .25903
CN 70161 57739 44507 31075 07041 .05539 .18288 .29842 .40523 .49836
.00362 .00375 .00375 .00367 .00488 .01619 .01436 .01436
ALPHA -11.037 -6.691 -4.518 -2.374 -200 1.999 4.167 6.292 8.474 10.596

CATE 12 JUL '4	٠. ٦١٢				TABULATED	SOURCE	DATA, LA	TABULATED SOURCE DATA, LARC 8FT667 (IA-41)	(14-41)				PAC	PAGE 29
					LRC & 1	LRC 8 TPT 667 1A41	A41 TIPIOL	101				(R@8010)	0) (29 JAN 74	N 74)
												BABANETEIC DATA	DATA	
	2 .63	REFERENCE DATA	T.									FARATE IN 1	<u> </u>	
	2690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE	1 SO.FT. 1 INCHES 1 INCHES SCALE	YMRP YMRP ZHRP	# # #	976.0000 .0690 400.0900	INCHES INCHES INCHES				6	9ETA =	900.	RWDER =	00 0.
			N. N.	Š	0 /27	RN/L =	2.11	GHACLENT INTERVAL #		-5.00/	3.00			
						;	;				2	đ	8	S
Đ.			2	3		5					.0023	-,57573	.45408	-1.26789
1.201	•		9610	9		.33419	707				00149	48098	.40897	-1.17658
1.202			9363	5		.32822	1040				00013	38409	.37017	-1.03759
1.203			0735	1		.32275	2013				50100	26144	.34455	81684
1.203			5713	7		.32575	9212	•			00200	16224	.32482	49947
1.204			0460	7		.31761	.131				10421	05173	31556	16393
1.202			5485			.31535	4000	,			00672	.05371	.31493	.17056
1.201			1677	ci.		.31291	1010-				.00686	.15844	.32345	.48984
1.201			2016			.31088	10/0*-				00554	24864	.33524	.74167
1.201			1692	ų,		26000	0761-	•			00418	.34459	.35552	.96924
1.202			1236	j.		90100	1181.				.00205	.43251	.38278	1.12991
1.200	10.635		.00661	4 6	.49572	6362	04242		00026		-,00066	.04955	00234	.14851

(R@6011) (29 JAN 74)

PARANETRIC DATA

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.000 RUDDER = ALPHA 976,0000 INCHES ,0000 INCHES 400,0000 INCHES MARP THRP ZHRP REFERENCE DATA 2690.0000 SQ.FT. 1295.3550 INCHES 1290.3555 INCHES .0150 SCALE

SREF :: LREF :: BREF :: SCALE ::

Por Contract of the Contract o

	1.70 65699 66939 69427 79505 79729 77721 76179 71710
	CD .18369 .18166 .17764 .17035 .16417 .15969 .16182 .16284 .16473 .16511
	CL - 12066 - 12001 - 11891 - 11856 - 12700 - 12732 - 12577 - 12577 - 11840 - 100104
3.6 2	CY .38741 .34426 .26642 .18321 .09944 .01838 16623 35217 35517
ML = -5.00/	CYN 14637 13277 0565 04099 00960 .03464 .06962 .11248 .14455
RADIENT INTERVA	CBL
3.18 GRAD	CLM089640904209074090740907409161091610916109767077670776700006
RNT :	CA .18314 .18113 .17713 .16366 .15916 .15912 .16124 .16226 .16436 .16436 .16436
NO. 56/0	CN12150119681196811960127711277112652126521192611926119261192611926
RUN	ALPM -26140 -2532 -24604 -2436 -2436 -25634 -25817 -2692 -2692 -2692 -2692 -2692
	BETA -9.893 -6.616 -2.206 -2.206 -0.52 -1.03 -1.03 6.527 6.527 6.527 6.628
	# + 1 m + 1

		RUN	NO. 55/ 0	SAVL =	1.89 GRA	RADIENT INTERVA	WL = -5.00/	20.6 /0			
		;	i	t	2	Ē	S.	გ	ರ	8	2
ğ	BETA	ALTHA	3	302.07	7697	07667	16574	.43318	08946	.19813	-,45154
.799	-10.687	17148	conen-	19/00	51690	06349	13798	35016	D8426	.19157	43984
600	-8.566	16042	08480	19155	0000	5.000 FAGA	11063	.27030	08385	.18541	45226
. 199	-6.401	15308	08433	91691.	00000	97750	07854	18574	08583	.17925	47885
8	-4.297	15278	08631	17902	66600	60610	-04115	19697	-,09203	.17235	53395
. 799	-2.085	15767	09250	1620	112/0.	.0169E	- 0.0675	01390	10240	.16628	61583
. 199	-:020	16699	10288	36691	2000	10410	03548	07872	10510	.16626	-, "3214
799	2.100	17219	10360	16001	27790	13151	077746	17470	09569	.16933	56513
.799	4.259	17432	09621	10904	01.000	£67.40.	11320	26243	08817	.16964	51975
.799	6.463	17683	- 108809	10801	7000	106017	14099	34470	08301	.17154	48394
79	8.573	18190	-,08356	11121	70070	17.470	16980	42764	08457	.17505	48312
.799	10.702	19370	-,08316	00123	.00013	00782	.01825	04210	00154	00122	01269

GRADIENT INTERVAL = -5.00/ 5.00

RN/L = 1.89

CATE 12 JUL 74	72 Br			•	TABULATI	ED SOURCE	DATA, LARC	tabulated source data, larc 8ft667 (1a-41)	A-41)			PAGE	<u>بر</u> س
					1	LRC 8 TPT 667 1A41	IA41 TIPIOS				(R@80:1)	1) (29 JAN 74	1 1 N
	BEFERE	NCE DATA	<								PARAMETRIC DATA	DATA	
SAEF :: LAEF :: SAALE :: SKALE ::	2690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES	A.FT. NCHES NCHES CALE	ANGE ANGE ANGE	68 88 88	976.0000 .0000 400.0000	976.0000 INCHES .0000 INCHES 400.0000 INCHES				ALPHA ::	000•	RUDDER =	00 0.
			RUN NO.	ó	34/0	FIV. =	1.99 GR	GRADIENT INTERVAL =	WL = -5.00/	90'8 /0			
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	•	17837	637	Ö	05741	.22537	.04837	.08475	18969	.47120	03670	66622.	1.820
906		16412	412	e è	05067	.21835	.04498	.07055	12768	.29440	04642	.21089	22012
006.		15448	3 3		26089. - 04879	20284	.03984	03939	09192	.20425	04327	20295	21320
3	-2.196	-,15343		Ö	-,05192	.19442	.04444	, 12086	04848	.10723	05140	.19456	26419
66		15972	246	2.	-,06257	.19679	.05101	.00318	00520	.01088	U5134	18690	30905
900		16497	497	G.	05877	.18824	.04582	01505	0250	19245	04853	19254	25204
929.		16880	980	ě, i	04910	19241	. 03484	05166	12942	28584	04712	.19645	23987
668.		17644	7 2	3 6	0477	66076	72077	06783	.16526	37909	04901	.20048	24448
8	8.707	10040			15029	20382	.52756	08139	.19416	46795	04958	.20400	24303
106	TO COACTENT	65200-	9 6	3	08003	00124	00038	03843	.02111	04554	00080	00124	00564
			ON NIA		53/0	RNAL =	2.04 GRJ	GRADIENT INTERVAL =	VAL = -5.00/	0/ 5.00			
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Š		AL HA	4	3 6	•	4	1000 E	10679	19233	.48167	06113	.29852	20477
.979	•	-2010	3 !	5 6	0621/	20594	6718	08100	15939	.38954	05719	.29603	19320
.981	-6.738	11361	> g		-,03619	28598	66090	.06350	-,12352	.29368	05050	.28614	17647
196.	200	-,17919	916	3	. D4954	.27528	.05758	.04298	08191	19410	-,04868	.27543	17673
198		-,18555	355	9	05477	.26343	.05789	.02224	04061	.09936	-,05391	20301	20432
976		19578	578	-,06582	5582	.25851	.06463	.05273	00227	80.00°	+6400	25883	24630
.979		19911	11.	2	06464 200	.25858	CC20U.	-,01019	.04554 04554	-,18822	06272	.26790	23414
286		20843	2 2	מיניים י	2,502.1	27389	.05752	05891	.12570	28634	-,05989	.27411	21847
196	6.361 A.766	21753		9	06152	.27733	96950.	07646	16256	38371	06047	.27736	21803
979	10.988	21861	196	9.	05793	.28004	.05347	09426	.19917	48770	-,05686	92082	0717
	GRADIENT	-,00330	55	00173	1175	00092	.00046	-,00928	c0810.	0000	******		
			RUN NO.		92/0	# 7	2.11 GRA	GRADIENT INTERVAL =	WAL = -5.00/	0/ 5.00	·		
Š		AI PHA	5	3		5	ð	ŧ	CYN	5	ر ا	8	5
	-8.788	27042	75	05351	1351	.34763	.05930	.07773	13306	.36896	05187	34788	14910
102-1	-6.601	24768	168	04637	1637	.33763	.05634	.06085	10255	62772.	04491	35762	-13633
1.201	-4.390	23635	335	04586	286	.32623	.05584	.04148	00179	24691		31711	12539
1.201	-2.231	23219	13	04105	1105	51694	05050	00276	1,000	.00476	04447	.31439	14145
1.291	200.	23969	696	04578	978	31450	05308	01735	.03435	08327	04724	.31676	14915
1.201	2.211	160.52-	760	00000	04860	31641	04770	03674	.06858	17269	04274	.31660	13500
162. 162.	A. 38.	26069	3 2	04196	196	32918	.04313	05676	.10377	27029	04050	.32037	12643
102-1		27461	} 5	03943	943	.32061	.03616	07499	.13413	36371	03789	.32099	11605
•	GRADIENT	00174	2	-,00019	610	16000	00057	00889	.01547	04037	00018	160001-	

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Ì	SAEF = 2690,0000 LAEF = 1290,3000 BREF = 1290,3000 SCALE = 0150
	" " " " "
	SAEF = 2 LAEF = 1 BREF = 1 SCALE =

	Ŝ	88243	84223	86238	74027	64414	49892	28444	04566	.17945	.41719	.63613	.08441			5	84043	78406	76573	66846	54298	34190	13480	.10517	.34185	.53513	.71876	.09614
	8	.10644	.09621	.08631	.080.7	.07542	.07235	.07104	.07005	.06916	07070.	.07313	00118			8	.11671	.10542	.09487	.08764	.08218	.00066	.07893	.07590	.07740	.08040	.08528	00131
	ರ	09569	08104	06922	05927	0485-	03610	02021	00320	.01241	.02950	.04652	.00678			ರ	09809	-,08266	07265	05859	D4462	02758	01064	.00798	.02645	.04303	.06129	.00821
00'\$ /0	გ	00469	00487	00598	00950	01118	01082	00/98	00434	00196	00316	00380	.00065	90 %		Շ	00184	00076	00163	00416	00580	00546	00443	00316	00294	003!15	00295	.00017
ML = -5.00	Ž	.00637	.00637	. 00664	.00801	.00760	.00579	.00385	.E3184	.00063	.00179	.00233	05078			CYN	.00422	.00343	26200*	.00471	.00439	.00299	.00208	.00123	.00190	.00181	.00167	00046
GRADIENT INTERVAL	ಕ	71000.	.0001	20000	60000*-	00016	00016	00013	00010	00013	00005	00004	00000	GRADIENT INTERV		ව	.0001	.00017	90000	00005	00012	00008	00010	00010	00010	00005	-,00004	00000
3.16 GRA	ð	.00376	.00616	1010.	.01527	.02091	.02574	.02904	.03140	.03435	.03720	.03984	.00195	1.90 GRAD		ð	.00526	.00765	.01299	.01589	.01874	.02089	.02215	.02346	.02468	.02773	.02992	16000
RNAL =	3	.08955	.08362	.07640	.07557	.07360	.07233	27170.	0,420.	.06744	.06578	.06370	00062	# VNd		5	.09751	.09259	.08653	.08327	.08049	.08066	.07925	.07514	.07416	.07354	.07310	00086
.co. 61/0	3	11356	09398	07806	06490	05129	03613	01761	.00185	.01971	.03927	.05878	.0900	50 G		3	11719	09682	08240	-,06466	04760	02759	06700-	.01334	.03450	.05392	.07540	29600*
NO.	BETA	99600:-	05929	00739	00303	.00269	.00802	.00734	.00485	.00263	.00199	.00278	96000	200	•	BETA	00720	00731	-,00693	00407	0000	.00284	.00320	.00293	.00076	.00120	.00136	.00085
	AH PA	-10.315	-6.232	-6.143	-4.146	-2.587	027	2.086	4.129	6.120	8.194	10.238	CRADIENT			AL PHA	-10.193	-8.183	-6.155	790.4	-2.101	911	1.986	4.066	6.076	960.8	10.179	RADIENT
	Ž	599	599	666	598	599	609	599	629	599	609	009				3	799	108	108	508	799	508	799	799	608	799	562	

110111	.10542	.09487	.08764	.08218	.08066	.07893	.07590	.07740	.08040	.08528	00131	
600000	-,08266	07265	05859	04462	02758	01064	.00798	.02645	.04303	.06129	.00821	
10100	00076	00163	00416	00580	00546	00443	00316	00294	003115	00295	.00017	
22100	.00343	26200°	.00471	.00439	.00299	.00208	.00123	.00190	.00181	.00167	00046	
1000	.00017	.0000	00005	00012	00008	00010	00010	00010	00005	00004	00000	
42000	.00765	,01299	.01589	.01874	.02089	.02215	.0346	.02468	.02773	.02992	.00091	
ic/sn.	.09259	.08653	.08327	.08049	.08066	.07925	.07514	.07416	.07354	.07310	00086	
11/19	D9682	08240	06466	04760	02759	06700	.01334	.03450	.05392	.07540	29600*	
	00731	-,00693	00407	60000	.00284	.00320	.02293	.00076	.00120	.00136	.00005	
-10.193	-8.183	-6.155	4.067	-2.101	911	1.986	4.066	6.076	960.8	10.179	GRADIENT	
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D SOURCE DATA, LARC 8FT567 (1A-41)
IED SOURCE
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	(R@0012) (29 JAN 74
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tabulated source data, larc 8ft967 (14-41)	LEC 8 TPT 667 1A41 T1P1
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	960°		5					149 14655									5	7148 - 86717					584 04045							
PARAMETRIC DATA	.DOD RUDDER			•••	07958 .11843			750. 451cu.							,		5						11684							•
PARA	BETA =	00'5 /1		.00014				- 000000 - 000000					26200-			-5.00/ 5.00	2						- 00700 - 00700							
		RWL = -5.00/	¥.	.00228	.00174	.00170	.00253	.00224	C0100	00000	20200	61200	.02201	.00190	*.0000	RWL = -5.00	,	2	2000	.0007	.00148	60200	.00191	,00100	68000	.00140	5100.	.00135	.00114	2+1110
		GRADIENT INTERVAL =	ğ	1200051						80000- 81			•		00001	GRADIENT INTERVAL =	1						60000- 60					00008		
	INCHES INCHES INCHES	. = 1.99	2													2.05	•	3					60000- 621							
	976.0000 1M .0000 1M 400.0000 1M	59/ 0 RN/L =	5	.11882 .113	76501. 25560			.03474 .095							•	58/ 0 RN/L =		ರ	.11900 .14246				02548 .12123					311.		
ATA	# # # # # # # # # # # # # # # # # # #	RUN NO.	3	BETA CA	•			.00068 O.							.00006	RUN NO.		BETA CY	- 89	•	•	·	.000560	٠				. 00004		
EFFERENCE DATA	2690,0000 54.FT. 1290,3000 INCHES 1290,3000 INCHES .0150 SCALE			ALPHA BI		-6.185			_									AL PHA BE				_				_				
	SACF = 269 LREF = 129 BREF = 129 SCALE =			Ş	6 60		000	026	106	206.	868	6	5	5	_			3	Cero		080		626	979	CRG	979	C.60	970	070	n. n

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LRC 8 TPT 667 1A41 TIP1

PARANETRIC DATA

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		RUN	RUN NO. 57/ 0	ENT =	2.10 GRA	RADIENT INTERVAL	WL = -5.00,	9.50			
į	į		8	5	*	ē	3	5	ರ	8	5
Ş	YEA.	06.1A	5	5	į	36000	DOUGE	33.6	- CA794	19325	45507
1.201	-10.357	05782	12126	1/423	30c10-	2000	20000			***************************************	20.403
	100 0	CERTAIN	F0507	16926	01039	91000.	.00159	20100	0734	18140	C3460*
5	23:01				92700	טויטטט	02600	70000	05358	17233	31091
202	-6.242	05883	2020-	10040	2000	1000			2000	45.5	Antro
6	74.5	1 COSE	90070	16048	00336	2000	8193	0000	03613	200011	1000
3.5		2000			000		90100	PA 100	02116	15992	13234
202	-2.118	21000.	1,1875	.1995	11000				7	45660	07070
	2770	DURNO	- ONFLE	15658	00700	-0005	00075	0008v	+.0004 +.0004	200011	9
200	2	60000		46644	200	AUGUU	00125	-,00019	.00630	15543	.04051
82	2.53	cocoo:	: III	110011	*****	2000		7.000	36000	4 6608	44402
500		00745	CASSAS.	15494	.01439	00011	00102	-,00001	C/220.	.1000	76447
3				+ K4K4	2400	- 00005	00065	50000	.03816	.15952	.23924
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90+	8 211	10000	77670	.15363	.8450	0000	40000	acuno.	200001	***	3
		94600	10433	15421	06820	90000	00077	.000:	.07608	.17055	.44611
	10.0%	615001	*****			00000	9000	OUUUU	AC7.04	- DONA	06770
	CRADIENT	22100.	9000	00073	.0223		1,000.	enno.		-	

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TABULATED SOURCE DATA, LARC 6FT667 (TA-41)
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LRC 8 TPT 667 1A41 T121

(Rec013) (29 JAN 74) PAGE

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.000 RUSDER =

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976.0000 INCHES .0000 INCHES 400.0000 INCHES 2980 :: 29802 2690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE SREF = LREF = BREF = SCALE =

66/ 5 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

9	45280	-39587	35633	39589	47711	51613	- 577To	5854A	58753	63313	69744	F.CF.CD
8	10294	.09456	.08785	.08268	.07675	07340	76982	.06786	.06659	.06510	.06360	00177
ರ	04661	03743	03130	53273	03662	03788	-,04029	03973	03913	04122	04436	00086
გ	.11172	.08323	.05937	.03765	.01563	00647	02759	04719	06735	09059	11743	01032
C	.00863	.01031	.00937	.00829	.00633	.00616	.00383	.00065	00228	00436	00457	00086
ਰੰ	.00136	76000.	,000 6 ,	.0003	.00010	00010	00033	00054	00085	00130	00167	00011
ð	.02840	.02472	.02220	.02362	.02643	.02581	.02744	.02795	.02800	.02909	.03021	.05047
5	.10292	.09455	.08784	.08268	.07674	.07339	.06981	.56786	.06659	60690*	.06359	05177
3	04656	03746	03131	03274	03663	03790	04931	03974	03913	04123	04437	00086
ALPHA	02399	01346	00665	00572	00637	01122	01199	6 0600*-	00755	00917	01315	00060
BETA	-10.330	-8.251	-6.196	4.136	-2.062	005	2.058	4.120	6.193	6.250	10.320	GRADIENT
Ö	600	.6 00	609	909	- \$00	609	9009	.599	. 6 55	٠ ٠	. 599	

RUN NO. 65/ 0 RN/L = 1.39 GRADIENT INTERMAL = -5.00/ 5.00

CD .11866 .10945 .09995 .09210 .09210 .08211 .07412 .07412 .07412 .07412
CL04141 03317 02875 0335 0335 0339 0339 03364 03306 03326 03326
CY .12101 .09441 .06905 .04370 .02154 00266 02534 07027 09688 12536
CYN .00373 .00302 .00281 .00286 .00256 .00276 .00276 .00134 .00111
CBL
CLM .02493 .02221 .022075 .022040 .02363 .02236 .02236 .02236 .02256 .02256 .02556 .02506 .00016
CA .11865 .10944 .09995 .09210 .08384 .08211 .07411 .071165 .07016 .06539 .06539
CN04144033190292502925033580312903129031290312403127033270332
ALPHA016540062100459005220058900547004800048000480
BETA -10.253 -6.141 -6.141 -4.095 -2.038 013 6.129 6.129 6.129 6.129

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2 PACE (Recots) (29 JAN 74)

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.000 RUDDER =

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PARAMETRIC DATA

LRC 8 TPT 667 1A41 T1P1

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2690,0000 50.FT. 1290,3000 INCHES 1290,3000 INCHES .0150 SCALE

SEEF :: LEEF :: BREF :: SCALE ::

1.99 GRADIENT INTERVAL = -5.00/ 5.00 REAL .. 3 RUN 13.

-25925 -25924 -192.9 -192.9 -19347 -19344 -21718 -2 .13102 .12255 .11370 .10389 .09593 .09241 .08578 .08508 .08514 .08514 .03397 -.02732 -.02130 -.01968 -.01999 -.01727 -.02027 -.02027 -.02015 .13063 .10164 .07538 .05083 .02638 -.02577 -.05728 -.10522 -.10522 .00116 .00116 .00006 .000024 .00027 .00275 .00275 .00203 .00203 .00151 .00113 .00113 .00017 .00013 .00013 .00064 .00096 -.00140 -.00140 .01956 .01725 .01725 .01533 .01160 .01160 .01286 .01279 .01440 .01610 .13101 .12255 .11370 .10389 .09593 .09541 .08771 .08508 .08489 .08314 CN -.03401 -.02734 -.02191 -.02191 -.01958 -.01958 -.01958 -.01958 -.02516 -.02516 -.02518 -.02678 -.02678 -.01776 -.01776 -.01040 -.01393 -.00373 -.00477 -.00510 -.00510 -.00382 -.00382 4.114 6.172 8.214 10.301 MADIENT 9ETA -10.291 -6.236 -6.176 -4.111 -2.057 -.014

71.4

8

= -5.00/ 5.00 2.05 GRADIENT INTERVAL **1 1 2 3 3** -.19796 -.14632 -.11991 -.09300 -.09581 -.06073 -.09354 -.13066 -.17673 CD .16099 .15317 .14292 .15311 .12391 .11492 .11446 .11393 .11453 .11455 .11555 .11555 .11555 .11555 .11555 .11555 .11555 -.03187 -.02272 -.01714 -.01229 -.00726 -.00927 -.01071 -.01489 -.01489 CY .13522 .10484 .07732 .05186 .05692 .00029 -.02653 -.10703 -.10703 -.11792 CYN .00942 .00662 .00117 .00153 .00153 .00154 .00155 .00155 .00052 .00052 CBL .00151 .00117 .00183 .00048 .00013 .00013 .00013 .00016 .00016 .00016 .00010 .00010 .0011 .01550 .01541 .01241 .00242 .00572 .00532 .00701 .00965 .01099 CA .16098 .15316 .14292 .13211 .12390 .11492 .11445 .11453 .11252 .00216 CN -.03194 -.02276 -.01716 -.01230 -.00189 -.00879 -.01991 -.01991 ALPHA
-.02609
-.01480
-.00851
-.00516
-.00619
-.00521
-.00547
-.00549
-.00546 -4.143 -2.068 -.004 2.069 4.124 6.181 6.266 10.349 BETA -10.363 -6.282 -6.209

17

LRC 8 TPT 667 1A41 T1P1

(29 JAN 74) (Ree013)

PARANETRIC DATA

.000 RUCDER =

AL PER

YARP Zarp

2690.5050 54.FT. 1295.3050 INTHES 1295.3050 INCHES

SKEF :: LKEF :: BREF :: SCALE ::

TEREDICE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES

RRA, = 62/0

2.11 GRADIENT IN JRWAL = -5.00/ 5.00

RUN NO.

CLM .01880 .01880 .01444 .01170 .00547 .00720 .005374 .005374 .00513 .00589 .00515 .00589 .01115 .00072

CBL...00165 .00127 .00087 .00087 .00097 ...0056 ...00196 ...00146

CTN .01704 .01396 .0134 .00817 .00417 .00306 ..00306 ..00659 ...00879 ...0181

CY .13710 .10477 .07516 .04895 .02522 .00225 .02213 ..07510 ..10612 ..14122 ...14122 ...01154

CL ... 03843 ... 03843 ... 01952 ... 01952 ... 01013 ... 010592 ... 01959 ... 01959 ... 01955 ... 01955 ... 01955 ... 01955 ... 01955 ... 01955

.19122 .17548 .17548 .16698 .16040 .15667 .15437 .15352 .15408 .15316

CA -.03655 -.02758 -.01955 -.01955 -.01955 -.01955 -.00599 -.00599 -.01959 -.01959 -.01959 -.01959

-.03571 -.02241 -.02241 -.00316 -.00316 -.00354 -.00279 -.00279 -.00505

BETA -10.426 -9.337 -6.246 -4.153 -2.105 -.056 2.062 4.153 6.227 8.322 10.422 46.422 46.422

-.2096 -.14966 -.1121 -.09977 -.07053 -.04563 -.05828 -.05828 -.05828 -.05828

CO ..19124 ..16356 ..15548 ..16598 ..15547 ..15547 ..15547 ..15547 ..15372 ..15316 ..15316 ..15316 ...50158

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JE 72
12 1
2472

TABILLATED SOURCE DATA, LARC OFT,-667 (1A-41)

LRC 8 TPT 667 1A41 T1P151P2

REFERENCE DATA

(Red014) (29 JAN 74)

PARAMETRIC DATA

976.0900 INCHES .0000 INCHES 400.0000 INCHES 9367 7367 7367 2690.0030 94.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

SECT : SKALE :

BETA

900 .000 RUDDER =

> 71/ 0 RN/L = 3.17 GRADIENT INTERMAL = -5.00/ 5.00 RUN NO.

1.39215 -1.39215 -1.09601 69313 69304 27475 .09704 .44501 .73933 .96148 1.16672
23346 21063 21963 21963 217098 216612 21629 216291 216291 21630
C 32501 32501 26517 10420 10420 10431 10431 13523 19020 19020 19020 19020 19020 19020
.00106 .00124 .00124 .00125 .00225 .00320 .00366 .00276 .00276 .00003
.00036 .00047 .00161 .001111 .00044 00010 .00010 00010 00046
CBL0009900123001310013100131001480007700077000740000400004
CUN .D4156 .D3316 .D3312 .D2313 .D2313 .D2313 .D2313 .D1706 .D142 .D0900
CA .16664 .16699 .16707 .16683 .16740 .16740 .1675 .1675 .1676
CN862092937923170117721177204603 0.08965154702176 2.2065 0.09078
#ETA00395 00476 00130 .00198 .01081 .01017 .00535 .00307 .00366
ALPta -10.765 -6.623 -6.483 -4.360 -2.210 074 2.074 4.232 6.313 10.648 6620ENT
. 599 . 599 . 599 . 599 . 599 . 599 . 599 . 599 . 599

5.00
-5.00/
INTERML =
GRADIENT
1.89
RN/L =
ð/ 0
RUN NO.

-1.37019 -1.22646 -1.05714 64698 59651 25653 -14317 -45817 -75594 -95769 -116776
.24601 .22339 .22339 .22562 .19122 .19224 .17611 .19477 .25959 .25954
CL33982 27397 21674 16235 16895 04536 .08410 .14723 .27371
CY .00225 .00232 .00135 .00135 0136 0136 00211 .00202 .00202 .00042
CYN070300605306053060290005600014060120616706167
CBL000910010600105000105000105000100001050001000010500
CLM .03274 .04451 .04004 .03397 .02471 .02138 .01379 .00707 .00225
CA .18136 .18059 .17869 .17675 .1777 .17678 .17699 .17699 .17699
CN37959303692361711519045560972016765167
BETA 00351 00306 00175 00021 .00300 .00300 .00284 .00284 .00284 .00280
ALPIA10.565 -6.376 -6.376 -2.178074 2.074 4.16; 6.279 8.374 10.502
MCH . 199 . 199 . 199 . 199 . 199 . 199 . 199

TABULATED SOURCE DATA, LARC 8FT667 (14-41)	
DATE 12 JUL 74	

LRC 8 TPT 667 1A41 T1P151P2

(Re6014) (29 JAN 74) PARAMETRIC DATA

PACE 39

8

.000 RUDDER =

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES : 269F.0050 50.FT. : 1295.3050 INCHES : 1295.3550 INCHES : 5150 SCALE SAEF :: LAEF :: BAEF :: SCALE ::

69/ D RN/L = 1.99 GRADIENT INTERWAL = -5.00/ 5.00 PUN NO.

8	16692	.24326	19622.	.20743	19781	.19376	.19459	.25433	.21526	-	23:39	.35569 .25176 .97955 .35569 .2542 1.18186
												06134
C	00041	00058	00019	.00051	.50103	.00031	.50022	670013.	.00110	2000		50003
Ę	00081	00098	35585	00032	-,00006	05522	50037	-,55547	55016	4. Critica 4		.00013
3	-0-12	.04658	.03967	.02552	.91866	.01303	.05930	.03242	00763	-, 61361		-,02280
5	19902	19655	.19716	1,9433	.19365	19351	.19323	119611	.19570	19596		19485
3	35.981	295.5	24615	18064	-,11185	93715	.04133	11954	.18835	75857		.34231
BETA	90496	00391	00334	67200-	.95561	.05489	96600	.00303	.00152	21100		7250
ALPHA	-10.752	-8.541	-6.460	-4,335	-2.276	186	2.066	4.214	6.326	6.43		16,585
Ò	156.	106	600	106	5	i di	U. e	667	556	5		3 5

68/ D RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

3	-1.13747	95855	77293	58866	35583	07955	.19454	.46804	.69853	.e7885	1,06954	DEFE
8	30008.	.27416	.25616	.24587	.23028	22822.	.23561	.23814	.25171	.26884	.29165	- Off.24
a	34130	26279	1980	14179	08194	01820	.04489	.11:46	.175.3	.23627	.31153	12055
გ	.00239	,00314	60200*	.00012	00197	00374	00349	00305	~.00448	-,00283	5045-	CEUUU -
CYN	00138	00117	00028	.00078	.00107	.00114	.00141	.00103	.00223	.00071	.00055	DOMO.
æ	00047	00074	00075	00005	.00008	*1000	00012	00025	.0000	20000.	.00032	- 00003
Š	.02332	.01383	.01305	.01252	96900°	. 0000	.00028	99567	01256	01519	02241	-0000
5	.23063	.23150	.23209	.22942	.22693	.22870	.22883	.22931	.23567	.23091	.22875	90000
3	39158	30105	22574	15966	67060	01851	.05325	.12865	20264	.27345	.36061	23860
BETA	00131	00373	00407	60277	.00131	.00529	.00384	.00398	.00358	.05444	.05786	*****
ALPHA	-10.823	-6.654	-6.503	-4.351	-2.217	DBD	2.086	4.213	6.364	6.510	10.687	
Đ.	086	186	-86	786	186	180	186	683	180	086	978	•

LRC 8 TPT 667 IA41 TIPISIP2

REFERENCE DATA

(Rae014) (29 JAN 74)

PARAMETRIC BATA

RUDDER = 8

BETA

976.0000 INCHES .0000 INCHES 490.0000 INCHES

2690.0000 54.FT. 1290.3000 INCHES 1292.3000 INCHES .0130 SCALE

SECT :: LIEUT :: SCALE ::

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2.12 GRADIENT INTERML = -5.00/ 5.00

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RUN ND. 67/ 0

1.03208 -.86418 -.69402 -.31090 -.2331 -.14650 .3627 .3627 .36478 .76295 .76295

.35927 .32707 .30633 .30653 .29120 .28248 .27968 .2

CL -.37060 -.28265 -.14877 -.09139 -.02710 .11003 .11003 .12658 .24388 .32658

.0008 .00042 .00141 .00042 .00174 .00314 .00316 .00316 .00316 .00316

-.00063 -.00065 .00097 .00179 .00179 .00236 .00236 .00234 .00234

01820 .01820 .01820 .01800 .01810 .00438 .00444 .00844

CA 28168 2.27992 2.27992 2.27993 2.27993 2.27993 2.27993 2.27992 2.27929 2.27929 2.27724 2.00006

CN -.43269 -.32941 -.24667 -.17073 -.02754 -.02754 -.05176 .13123 .20215 .20215 .20215 .20215 .20215 .20215 .20215 .20215 .20216

9ETA .00039 -.00149 -.12466 -.00396 -.00369 .00369 -.00174 -.00173

ALPHA -11.031 -6.824 -6.824 -2.249 -2.249 2.103 4.291 6.443 10.885 GRADIENT

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TABULATED SOURCE DATA
2
a,
A.
CAIL

TA, LARC 8FT.-667 (1A-41)

(R@8015) (29 JAN 74)

PARAMETRIC DATA

LRC 8 TPT 667 1A41 T1P151P2

000.		
RUDDER -		
000		
ALPHA ::		
	: 976,0000 INCHES : 0000 INCHES : 400,0000 INCHES	
<u>.</u>	27 47 47 47 47 47 47 47 47 47 47 47 47 47	
KETEKENE DAIA	2690.0050 59.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE	
	SECT :: LREF :: BREF :: SCALE ::	

		RUN NO.	D. 76/ D	RNAL =	3.18 GRA	RADIENT INTERVAL =	WL = -5.00/	00.6 /0			
			i	3	2	Ē	N.	5	ರ	8	5
Ş	BETA	ALPHA	5	A)	91.60	NOTE A	51001	.10358	03411	.17787	19177
8	-10.230	-,01585	03416	11/60	66130	•0000	450'40.	.08167	03530	.17433	20250
.599	-6.239	05948	03533	26471	•06430	20000.	- 00135		03964	.17077	23213
.599	-6. 0 7	00871	-,03967	2011	20020	7,000	. nan-	.04100	04280	.16861	25382
.599	-4.099	01119	-,04283	10607	00630.	- 00100	00188	17610.	04573	.16777	27257
.599	-1.885	01913	-,04379	01/01	50250	- 0007a	*9000°-	.00029	04518	.16740	26986
.599	009	02479	-,04525	10/38	20130	F F T T T	86000	02133	04529	.16664	27175
599	2.062	02971	-,0455/	70001	10,000	0000	2200	04279	04244	.16724	25379
.599	4.113	02436	-,04252	22/01.	5000	1000°	กราก	06641	03957	.16976	23311
.599	6.161	01943	-,03963	C/ROI:	72500	1000	66200	08876	03848	.17386	-,22132
8	8.253	02011	#CRCC*-	11.30	10000	60000	00355	-,11393	03445	.17752	19496
.599	15.233 GRADIENT	01685	.00005	00019	00064	.00011	.00055	01024	.00005	00019	.00001
		RUN NO.	D. 75/0	RIVIL =	1.89 GRA	RADIENT INTERVAL =	WL = -5.00/	00.5.00			

1.0 22853 22823 22723 25236 25209 25009 2162 22498 21017
CD .18826 .1837b .18071 .17687 .17687 .17649 .17699 .17965 .18332 .18720
CL 04302 04103 04107 04467 04467 04519 0426 04124 03314 03334
CY .11700 .09167 .06934 .04771 .02516 .00181 04603 07080 12454 11454
CYN006150055800560005500010500105 .00164 .00566 .00716
CBL001550012800128001280010500015001090015500165001650016500165
CLM .02483 .02620 .02756 .02756 .02319 .02341 .02397 .07300
CN - 04308 - 04110 - 04110 - 04339 - 04348 - 04348 - 04348 - 04341 - 05941
ALPHA 01964 01461 01004 01339 02666 02255 02205 02005
BETA -10.210 -6.073 -4.073 -2.010 2.038 2.038 4.239 6.132 8.148
404 409. 209. 209. 109. 109. 1009. 1009. 1009.

TABILATED SOURCE DATA, LARC 8FT.-667 (1A-41)

PARAMETRIC DATA

	900
¥ 1 4 5	RUDDER =
PARAMETRIC DATA	000
•	ALPIA ::
	INCHES INCHES INCHES
	. 976.0000 . 0900 490.0990
	11 11 11
•	TARRED TO SERVICE STATES
REFERENCE DATA	2690.0000 50.FT. 1290.3000 INCHES 1290.3050 INCHES
	11 11 11 11
	SATURE SATURED

	-19201 -16717 -16717 -1770 -19045 -19047 -19047 -1722 -1722 -17357 -17357	
	CD .20691 .20473 .19968 .19502 .19502 .19204 .19513 .19618 .20160 .2046500012	
	CL 03973 03423 03423 0353 03573 03573 03512 03512 03512	
00'9 /		5.00
N = -5.00/	2000000000000	L = -5.00/
FRADIENT INTERVAL =	CBL	RADIENT INTERML =
1.99 GRAD	01723 -01694 -01694 -01581 -01581 -01583 -01471 -01508 -00028	2.04 GRAD
RIVL =	CA 20689 20472 19966 19953 19239 19298 1929 1929 19211 19215 20158 200012	1 28
ND. 74/ 0	Co	ND. 73/0
NO.	ALPHA03536024260242603671040520357603576035640354403168	S. N.
	BETA -10.303 -9.223 -5.035 -1.958 -1.958 -1.002 2.063 4.101 6.195 6.234 10.236	
	989. 269. 269. 269. 269. 269. 269. 269. 26	

		NO.	NO. 73/0	RYL :	2.04 68	RADIENT INTERVAL	ML = -5.00/	2.00			
	į	3	5	5	1	ē	Š	გ	ರ	8	2
5	DEIA	ALTIA	1000	21110	03000	00226	01175	.14513	02888	.24444	11813
6.6	-10.23	1000-	2000	24996	FARITO	0020A	-,01098	.11456	02153	.24287	08865
28	602.8-	80000°-	06190	2487	20500	00182	01030	.08606	01849	.23872	07744
286	31.0	00000	20010-	OFFE.	DAAR	00153	00825	.05836	01953	.23331	08369
286	90.7	-,02699	-,0190	9000	CA242	00096	00457	.03018	01735	66622.	07543
200	3.4	9100-	12.00	2285A	00036	00017	.00057	.00049	01757	.22859	07686
286	600	66660	00010	22075	81000	.00082	.00602	02949	01681	.22977	08188
200	190.2	66040	06010	OBSE O	00213	.00152	.00922	05809	01927	.23262	08285
976	4.149	60000°-	34610	24807	.00351	.00212	06010	D8624	02045	.23598	08665
979	6.17		- 0000	24001	07445	.00235	.01212	11717	01997	.24002	08321
976.	1/2-9	03113	-,02010	24219	.00773	.00251	.01379	14881	02447	.24220	10102
B/6.	10.301 GRADIENT	00115	00006	0000	00037	.00039	.00223	01433	00005	00007	-,00025

_	62)
	(496015) (29
667 (IA-41)	
ABULATED SOURCE DATA, LARC 6FT667 (1A-41)	LRC 6 TPT 667 IA41 TIPISIP2
DATE 12 JUL 74 TABU	ראַ

REFERENCE DATA

976,0000 INCHES ,0000 INCHES 400,0000 INCHES SREF = 2699,0909 SQ.FT. LREF = 1290,3009 INCHES BREF = 1290,3009 INCHES SCALE = .0159 SCALE 72/ 0 RN/L = 2.11 GRADIENT INTERWAL = -5.00/ 5.00 RUN NO.

	52111325											
	03343 .29521											
	.145790		_	_								
	00198											
	00231											
ð	.01342	.01205	.01166	.01085	.00993	.00677	62900	.00685	.00635	.05718	.00944	-,00056
5	.29519	.29099	.28627	.28286	.28563	.27952	.28054	.28367	.28622	.29588	.29467	70000.
3	03364	02758	02461	02387	02489	02345	02359	02252	01957	01999	02273	61000.
AL PHA	04065	-,02998	02388	02461	52982	03654	03842	03499	02827	02666	02627	05132
BETA	-15.381	-6.323	-6.176	136	-2.547	710.	2.071	4.182	6.249	8.275	10.372	GRADIENT
Ž		8	102	2	2	2	2	2	120	1.201	1.25.0	

PAGE 43

(RG6015) (29 JAN 74)

000.

.000 RUDDER =

ALPHA =

PARAMETRIC DATA

LRC 8 TPT 667 1A41 T1P1S1P204

_
Z
NYC
2
(R00016)

900

5.000 RUDDER =

DETA

PARAMETRIC DATA

DATA
REFERENCE

SREF = 2690,0000 SQ.FT. DORP = 976.0000 INCHES LREF = 1290,3000 INCHES YMRP = .00000 INCHES BREF = 1290,3000 INCHES ZMRP = 400,0000 INCHES SCALE = .0150 SCALE

RUN NO. 81/0 RW.L = 3.17 GRADIENT INTERM. = -5.00/ 5.00

			MO. 81/ U	# 1	2.5	RADIENT INTERVAL #	WL = -3.00/	00.6 /0			
ð	ALPHA		3	5	3	ਵੱ	ŧ	5	ರ	8	2
599	-11.975	-	60148	.26940	.19274	.08388	.09013	20200	72617	.42977	-1.69432
599	-9.716	•••	-,65595	.27130	.13077	.08224	.09124	20306	60076	.37811	-1.58887
609	-7.390		51290	.27138	.07277	.07932	.09129	20226	47373	.33510	-1.41371
598	-5.170	•	38367	.27092	.02211	.07747	.09334	-,20553	35770	.30439	-1.17512
565	-2.858	-	25871	.26919	02389	.07572	.09451	-,20785	-,24497	.28175	86945
599	638	40	14188	.26697	06569	.07427	.09489	21003	13890	.26854	51726
665	1.628	W)	02559	.26245	10444	.07454	.09624	21646	-,03303	.26162	12626
009	3.920	*	.09825	.25524	14531	.07131	.09486	21512	.08057	.26136	.30826
609	6.262	*	.22848	.24524	18595	.06717	.09212	21090	.20037	.26870	.74571
.598	6.520	*	.35418	.23221	22797	.06300	.08855	20576	.31587	.28212	1.11965
009	10.791	*	.49378	.21780	27839	.06044	.08842	20448	.44427	.30639	1.45000
	GRADIENT	.00342	.05253	00206	01783	00057	.00011	00125	.04790	00300	.17368

RUN NO. 80/ 0 RN/L = 1.89 GRADIENT INTERML = -5.00/ 5.00

-1.57362 -1.45458 -1.27246 -1.0174 37999 00174 .44072 .80755 1.11798 1.31718
CD .44364 .3665 .34578 .31628 .28304 .27397 .27790 .29192 .31625 .3527600439
CL 69910 56532 44000 52238 21400 10755 63048 12247 25574 25574 35356 46464 04971
.21885 22513 22513 22513 23138 23139 23136 22549 22549
CYN .10566 .10953 .10953 .10954 .11127 .10854 .10863 .10361 .09802
CBL085920376608580085800818608186080370751207342.
CLM .16091 .09882 .04358 00704 03164 1392 18081 27489 27489
CA .29449 .29218 .28929 .28431 .28299 .26309 .26509 .26501 .26501 .26201
CN 7734 62069 47903 34811 2732 11002 0778 7. 14172 26557 39566 52123 05474
BETA 5.20823 5.25342 5.28341 5.30589 5.31337 5.31327 5.28265 5.28265
ALPWA -11.564 -9.300 -7.035 -4.874 -2.635 501 1.745 4.034 6.130 8.339 10.518
C

a 7. Table ted Source Data, Larc 8FT667 (1A-41)	241 66 7 (3:00-01)
CATE 12 JUL 74	

PAGE 45	(R@8516) (29 JAN 74)	PARAMETRIC DATA
TABILATED SOURCE DATA, LARC 8FT667 (1A-41)	LRC 8 TPT 667 1A41 TIP1S1P201	
15 12 Jul 74		Arecelufe 6474

REFERENCE DATA

RUN 1905 -11.676 5.29362 1905 -1.676 5.29362 1905 -2.13 5.39517 1901 -2.14 5.45877 1901 1.777 5.41327 1901 10.672 5.3918 10.672 5.3968 10.672 5.3918	= .000 = 400.0000	INCHES INCHES							
ALPHA BETA -11.676 5.293 -9.503 5.339 -7.24 5.369 -5.413 5.418 -5.45 5.418 -5.45 5.418 -5.45 5.391 -6.457 5.391 -6.457 5.394 -12.251 5.394 -2.675 5.443	NO. 79/ G	RN/L =	1.99 GRAD	GRADIENT INTERVAL	AL = -5.00/	3, 5.00			
ALPHA EELS -11.606 5.293 -9.205 5.393 -2.513 5.395 -2.514 5.408 1.757 5.413 1.672 5.391 6.457 5.369 10.672 5.394 ALPHA BETA -2.675 5.432 -2.674 5.443			3	ē	Š	გ	ರ	8	5
-11.056 5.293 -9.905 5.339 -7.254 5.367 -2.747 5.395 -2.747 5.413 1.757 5.413 10.672 5.391 6.457 5.369 10.672 5.334 ALPIA BETA -2.675 5.443 -2.675 5.443	2010	12659	.15756	96660.	.12636	25409	73016	.48626	-1.50157
ALPHA BETA 5.443 -5.25 -5.35 -		32377	58349	.10116	.13267	26165	57854	.42514	-1.36083
ALPHA BETA ALPHA B. 2.015 -2.013 5.395 -2.13 5.395 -2.012 5.391 -2.012 5.391 -2.014 5.443		12141	91510	10552	.13397	-,26235	43485	.37936	-1.14626
-2.013 5.30 -2.747 5.396 -2.15 5.413 3.954 5.415 6.212 5.391 8.457 5.369 10.672 5.334 GRADIENT .051 ALPHA BETA -12.251 5.397 -2.674 5.443		42140	67470	62963	.13343	26518	30189	.34901	86500
-2.447 5.490 -514 5.403 1.757 5.403 3.954 5.403 6.457 5.359 10.672 5.334 6400 672 5.334 4174 BETA -12.251 5.397 -2.675 5.443 -2.219 5.443		44020	1,065,6	.09286	13044	-,25626	17815	.32825	54282
4.514 5.413 3.954 5.413 3.954 5.415 6.212 5.334 10.672 5.334 10.672 5.334 GRACIENT .051 ALPIA BETA 4.2.29 5.443 -2.219 5.443 -2.219 5.443		11 503	14510	46090	.13055	25826	05959	.31648	18628
1.757 5.413 3.954 5.415 6.212 5.391 8.457 5.394 10.672 5.334 GRACIENT .051 ALPIA BETA -12.231 5.397 -2.675 5.443 -2.874 5.443		4001E	19718	9 0060	13121	26116	.06120	.31407	.19485
3.954 5.456 6.212 5.334 10.672 5.334 10.672 5.334 64ACIENT .051 ALPA BETA -12.251 5.437 -5.219 5.443 -2.874 5.443		27075	27269	F. 17.87	.12708	25836	.17154	.32108	.53271
6.212 5.391 8.457 5.356 10.672 5.334 GRACIENT .051 ALPA BETA -12.251 5.397 -9.605 5.417 -5.219 5.443 -2.874 5.443		20000	201410	0821	12522	25304	.28543	.33797	.84454
6.457 5.369 10.672 5.334 64ACIENT .051 ALPIA BETA -12.251 5.397 -9.605 5.417 -7.473 5.432 -5.219 5.443		11606	20107	50.50	11352	24826	.39874	.36762	1.09466
10.672 5.334 GRACIENT .051 ALPHA BETA -12.251 5.497 -7.473 5.443 -2.874 5.443		30,470	******	0.000	1080+	24065	50349	76257	1.24953
ALMA BETA ALMA BETA -12.251 5.397 -9.605 5.417 -7.475 5.443 -5.219 5.443		.35273	3/663	AIR.D.	10001	7000	00000	60407	16135
ALPIA BETA -12.251 5.397 -9.605 5.417 -7.473 5.443 -5.219 5.443	•	05162	02192	-,00081	00042	19000-	777cg.	101001	
ALPIA BETA -12.231 5.397 -9.803 5.417 -7.473 5.432 -5.219 5.443	78,0	RNL =	2.05 GRAD	GRADIENT INTERMAL =		-5.50/ 5.05			
ALPA -12.251 -9.675 -7.473 -5.219						į	í	•	•
-12.23 -9.693 -7.473 -5.219		5	ğ	ਭ	Š	Շ	ا	3	
		45529	.14611	.11932	.14765	29868	78454	.58515	-1.34581
2.219 2.219 2.874 2.874		47678	.06567	.11324	.14716	29074	61384	.51889	-1.18298
-5.219 -2.874	- 49333	66907	06000	.10672	.14417	28234	46596	.47159	98955
-5.219		40723	05630	.10155	.147.5	27749	33795	43979	75944
-Z-9/4		40620	15786	.09546	.: 4027	27596	21210	.41736	55625
		40505	16548	50903	.13740	-,26938	18618	.45692	21179
220		ACROR	- 20136	.08556	.13461	26611	.04471	.45744	.10372
1.67		40467	- 27675	.08323	12848	26180	.16261	.41676	.39517
3.919		4000	9376	96080	.12574	25806	.29596	.43490	.66952
22.9		10000	ACROS.	07764	11893	24952	.45467	.46168	.87652
6.460		21/60	42000	17594	11087	24212	.51240	.49610	1.03286
10.70		30360	00700	70.00	- 00168	.00136	.05533	-,00006	.13301
	•	.00,00	06#30						

DATE 12: JUL 74

TABILATED SOURCE DATA, LARC 8FT.-667 (IA-41)

LRC 8 TPT 667 1A41 T1P1S1P201

PARANETRIC DATA

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(R@6016) (29 JAN 74)

5.000 RUDDER = **8**53

SREF = 2690,0000 SA.FT. LREF = 1290,3000 INCHES BREF = 1290,3000 INCHES SCALE = .0130 SCALE

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES

77/ D RN.L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00 3 3

-1.14625 -1.10690 91179 59387 14187 14187 13643 64049 64961 64961
. 5910 . 59161 . 58161 . 48769 . 46149 . 46149 . 46182 . 46227 . 52620
CL -66672 -64379 -133839 -19726 -06119 17961 -25534 -05356
CY -28640 -28237 -24820 -24160 -24133 -24133 -24133 -24133 -24133 -24133 -24133 -24133 -24133 -24133 -24133
CYN .13246 .13246 .12193 .11140 .11070 .11061 .10567 .10137 .09370
CLM .06557 .0449902440084401479225601357844500450045004500
CA .45933 .45674 .45674 .44933 .44658 .44658 .44659 .42661 .4209 .43268 .4215 .41740 .20117
CN78696756305473528122215006887 .07386 .21072 .34934 .48718 .61533
BETA 5.50401 5.49673 5.49673 5.5055 5.5138 5.5138 5.5138 5.4889 5.4889
ALPHA -10.620 -10.161 -7.799 -5.442 -3.032 -696 1.696 10.696 6.277 6.605

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(R@6017) (29 JAN 74)

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PARAMETRIC DATA

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LRC 8 TPT 667 1A41 T1P151P201

REFERENCE DATA

SREF = 2699,0500 SQ.FT. DOGP = 976,0000 INCHES LREF = 1299,3500 INCHES -4RP = .6000 INCHES BREF = 1299,3500 INCHES 27RP = 400,0000 INCHES SCALE = .0159 SCALE RUN NO. 86/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

=	: 12	يو	&	ĮO.	<u>ස</u>	4	~	4	~	•	
1.65821	-1.5436	-1.3468	-1.1169	8157	4935	1154	.2910	.6825	1.0589	1.3907	.1546
CO 445%	39014	.34827	.31802	.29558	.28317	.27625	.27661	.28298	.29644	.32118	00459
CL. 73764	60231	-,46907	35583	23963	13890	03189	.08051	.19315	.31392	.44668	.04753
CY 24307	24273	24533	24675	24981	25655	-,25823	-,25706	25105	24525	24424	00128
CYN 12980	13010	.13221	.13362	.13510	.13755	.13708	.13600	.13213	.12763	.12773	.00030
Ger	.08596	.08393	.08128	.07969	.07994	.07837	.07521	.07569	.06615	.05383	00029
CLA	13505	.07316	.02381	02358	ກຣສອນ	15368	14354	18195	22605	27788	01826
CA	.28595	.28664	.28599	.28419	.28218	.27716	.27011	.25985	.24547	.23039	00170
3	65819	50907	38205	25303	14091	02275	.15525	.22330	.35519	.49959	.05257
6ETA 4.4147	5,35335	5.38462	5.40819	5.42874	3.45039	5.45422	5,44359	5.41564	5.38083	5.34578	.05425
ALPHA	6.43	-7.215	-4.971	-2.648	458	1.892	4.124	6.359	8.711	10.960	GRADIENT
7	8 8	.599	559.	603	.600	. 599	629.	.599	.599	.599	

RUN NO. 85/ D RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

5	-1.53927	-1.42032	-1.22936	99158	69550	36566	95462	.39366	.76917	1.06381	1.25523	.15733
8	.45744	.40255	.36147	.33198	.30963	.29765	.28982	.29347	.30711	.33239	.36817	05442
ರ	70412	57175	44437	32919	21535	10884	00134	.11553	.23622	.35360	.46030	.05018
გ	25826	26417	26401	26468	26490	26915	27036	27060	26973	26321	25879	00579
Š	.14404	.14728	.14717	.14768	.14717	.14869	.14731	.14665	.14661	.14148	.13510	00009
	.08985	_										
ð	.16903	12701.	.05038	.00074	04633	08941	-,13294	17480	22191	27284	32036	01990
3	.30933	.30738	.30544	.30375	.30008	.29715	.28971	.28448	.27908	.27619	.27580	00222
3	78060	62806	-,48459	35541	22847	11019	.00823	.13618	.26875	.39905	52092	.05547
BETA	5.21820	5.26490	5.29200	5.31251	5.32727	5.33983	5.34386	5.33509	5.31407	5.28421	5.25355	.00282
ALPHA	-11.393	5.070	-6.972	7.73	-2.466	260	1.693	4.093	6.353	6.541	10.756	GRADIENT
ð	.799	109.	909	.799	.798	.799	.799	861.	.799	659.	.799	~

5	96	<u>Ş</u>	ž		200		-,33466	3283	X23	.06850	19148	.31982	.44555	56946	.05883	83/1		25	ğ	986	3	88	8	8	3	දී	Z	25	233	
	14 ££		ġ	₹			'n	1928	06423	ģ	÷	ų.	į	Ŗ.	g	ğ	3	87543	.69501	51988	-,3686	-2882	08636	.0589	\$633	34008	.47545	.60350	.06233	
į	A MARP	SMC .	2	BETA	34246		38882	10100	11174	1293	15484	.38930	5.37008	.33014	.051~8	N N	€.	10456	12639	13723	2	5096	15936	1958	3	191	121	316	820	
	NEPERENCE DATA 0000 50.FT. 3000 INCNES	INCHES		出 。	7		e.	8	8.	١.	. e.	e.	5,3	S,	ġ		BETA	5.40	5.42	5.43	5.5	5.43	5.43	3.4	5.4	2.421	5.3872	5.35318	00028	
	1290.0000 1290.3000			ALPHA	-11.63	-7.005 -7.005	-4.832	-2.553	324	1.926		6.423	8.564	10.663	GRADIENT		ALPHA	-11.925	-9.654	-7.226	4.92 6	-2.633	406	1.832	4.1%	6.4E.	6.670	10.957	GEADIENT	
	SELT	BREF = SCALE =		5	5 5 6 6 7		900	026.	300	206.	669.	008	669.	669.				979.	.981	.979	086.	.96D	.961	5 6.	.979	.979	676.	.978		

CATE 12 JUL 74

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

(Reed!") (29 JAN 74)

PARAMETRIC DATA

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BETA BETA

PAGE

K 8 TPT 667 1A41 T1P151P201

6.0000 INCHES .0000 INCHES 0.0000 INCHES

1.99 GRADIENT INTERMAL = -5.007 5.00 **RX** " XX 1.00 -1.47052 -1.32146 -1.09323 -.31644 -.11777 -11362 -150207 1.03216 1.20063 -15073 49865 43879 39420 35485 33207 33207 3346 35344 35695 41634 36095 CL...73356 -.73985 -.43095 -.43095 -.1768 -.06235 .16802 .28206 .39321 .49995 C7 -.29792 -.30152 -.2986 -.29617 -.29617 -.29408 -.29408 -.29408 -.29408 -.29408 -.28408 -.28408 .17032 .17347 .17347 .17350 .16833 .16883 .16883 .16883 .16418 .15307 .15307 CBL .10340 .10397 .10237 .09561 .09371 .09371 .08215 .08488 .08488 .08488 CLM .16516 .09037 .01670 .01670 -.09250 -.14011 -.14011 -.14011 -.14011 -.14011 -.14011 -.14011 -.14011 -.14011 -.14011 -.14011 CA .34116 .33673 .33675 .33670 .33763 .33763 .33764 .33171 .32764 .331967 .331967 .331967 .331967 .331967 .331967

GRADIENT INTERVAL = -5.00/ 5.00 2.05 # **1**

0 .99275 .13417 .48462 .45345 .45347 .45080 .47481 .50978 .33947 -.33232 -.32257 -.31668 -.30702 -.30702 -.29421 -.29421 -.29421 -.29426 -.27692 -.27692 .18996 .18873 .18538 .18774 .17997 .17222 .17234 .16575 .16575 .16587 .16587 CBL .12142 .11580 .110853 .10853 .10317 .09711 .09711 .09711 .09173 .08636 .06413 .07544 .00214 .00214

.14577 .14577 .07132 .00381 .00381 .19240 .15922 .21862 .33229 .38468 .3828 .3828 CA .42095 .42293 .42298 .42395 .42395 .42395 .42395 .42995 .42995 .41598 .41513 .40779 .00070 .00070

1.00 -1.129630 -1.14694 -.95456 -.18936 -.1959 -.19620 -40162 -40

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LAC 8 TPT 667 1A41 T1P1S1P2GI

(29 JAN 74) (RQ8017)

PARAMETRIC DATA

BETA

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2690,0000 54.FT. 1290,3000 INCHES 1290,3000 INCHES

SCALE ...

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LRC 8 TPT 667 IA41 TIP1SIP2CAFRI

(Restol) (29 JAN 74)

PAGE 50

PARAMETRIC DATA

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.000 RUDDER =

BETA

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES SREF = 2690,0000 54,FT. LREF = 1290,3000 INCHES BREF = 1290,3000 INCHES SCALE = .0150 SCALE

5/ 0 RN/L = 3.19 GRADIENT INTERMAL = -5.00/ 5.00

;	8	23581	22879	22202	21464	20663	20146	19335	18716	17990	17133	16835	.00306
!	£	43513	43105	41280	39490	38661	37012	35699	-,35866	36320	-,37650	38109	.00457
	Š	-,36645	-,35851	-,34177	31730	29463	28087	26816	26027	-,25452	26961	28308	.00628
	E	49394	47648	45519	43285	41862	40834	39868	39286	38967	38545	38444	.00447
	2	23166	22159	21190	20452	19571	18922	18185	17662	17243	16827	16548	.00312
	£	22430	21116	20104	19237	18278	17465	16496	15925	15540	15113	14793	.00376
	ALPIA	-11.936	-9.688	-7.369	4.984	-2.819	63	1.685	3.928	6.219	8.514	10.832	GRADIENT
	Š	599	.601	9	009	599	909	909	009	9	909	200	

4/ 0 RWL = 1.90 GRADIENT INTERWL = -5.00/ 5.00 RUM NO.

g	25567	24383	23626	22593	21614	20681	20026	19926	19480	19597	19778	.00326
£	-,39357	39433	38283	36463	35545	-,33627	-,32259	-,33662	34774	36176	36284	.00406
Ç	-,34543	34422	-,33099	30967	29164	26447	24971	25421	-,25917	27616	30199	66900*
E	48828	46675	4448	42083	40789	39406	38516	38704	-,38175	38539	39644	.00413
8	24850	23640	22674	21614	20834	19855	19303	19409	19299	19545	19805	.00272
દ	24611	23170	21974	20948	19891	1878	18332	18596	18540	18972	19395	.00287
ALPHA	-11.449	-9.218	-6.950	-4.828	-2.575	-,453	1.740	3.940	6.154	8.326	10.557	GRADIENT
			600									

	(168101)
TABLLATED SOURCE DATA, LARC 8FT667 (IA-41)	LRC 8 TPT 667 1A41 TIPISIPZOIFRI
12 JU. 74	

REFERENCE DATA

SREF = 2690.0000 SQ.FT. DURP = 976.0000 INCHES
LREF = 1290.3000 INCHES 7MRP = .0000 INCHES
BREF = 1295.3000 INCHES 2MRP = .400.0000 INCHES
SCALE = .0159 SCALE

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FARANCTRIC DATA

(29 JAN 74

RIM NO. 3/ 0 RW/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

	95	31146	90400	00403	27107	- 25983		2493/	24747	04700	30/43*	24949	30.00	64163	24687		24741	50100	
	£	39599	30400	38120	37216	36165		34646	-,32512	91010	31810	32654		-,339/3	19761		39391	27700	
	3	45013		-,35133	33935	32008	06000	30901	26366		24735	2 5 5 2 F.2		28878	10005		35424	00000	28600.
	ğ	26.50	3.000	46267	44272		-,43336	41539	10260	2000	3748A	3.7£2.E	2010	38401	3000	-,03335	412R7		769D.
	8	400	069/20-	26745	25084		24926	-,23948	00960	1,63042	23748	03060	#09C7*-	23679		23333	POORE	1	40100
	į	5	2790/	26805	28020	370031	24582	54449		• 22.48	22785		62622*-	16646	*****	23152	02300		£100.
•		4	-11.762	977 0-		-1.203	-1.936		10. N	-,455	. 755	7	3.97	4 017	113.0	A.440		10.01	GRADIENT
5	,	5	669	•00	106	56.	800		200	56	000	200	668		.633	90	660	868.	•

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 ALPHA
 CP1
 CP2
 CP3
 CP4
 CP5
 CP6

 981
 -12.079
 -36213
 -37293
 -53341
 -47639
 -50409
 -,43236

 979
 -9,747
 -35315
 -,3534
 -,50455
 -,44370
 -,46304
 -,35373

 981
 -7,429
 -,34319
 -,34347
 -,49310
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 981
 -5,143
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 -,49310
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 -,3682

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 -5,601
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 -,31493
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 -,3513

 979
 -5,58
 -,3022
 -,31493
 -,44865
 -,4379
 -,45126
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 -,4865
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 979
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 979
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TABULATED SOURCE DATA, LARC OFT.-667 (1A-41)

LRC 8 TPT 667 1A41 TIPISIPZOFRI

(Ree101) (29 JAN 74)

PAGE 52

PARAMETRIC DATA

8

.000 RUDDER =

BETA =

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 1066P = 71677 SEET = 2699,0000 SQ.FT. LEET = 1290,3000 INCHES OREF = 1290,3000 INCHES STALE = .0150 SCALE

1/ 0 RUL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00 RUM NO.

2	*						
7	4.0	ē	8	5	3	£	2
		99768	12051	44084	- ATAGA	46839	38004
102.1	-12.324	*****	- 26333				
•00•	ARD DA	31905	32209	4259	50404	47207	-, 33433
	2 696	20630	TORKE.	43352	.39981	47320	32363
102:1	20.7	000000		300			******
1 201	-5.374	29343	29290	42383	39413	.4589.	**************************************
	900	P3776	27959	41201	.37960	44848	28873
1,2,1	006.7-	3	200		****	61011	- 50657
1.201	- 627	26130	27231	-,40675	37961		
	476	24742	- 26242	40186	38125	45182	28545
1.5.1	0.00	3014301			0000	43060	9006
1,261	3,992	-,24499	26086	38921	4J9Z6	4/302	10007
	OTO A	13476	26J32	38868	45638	46845	28865
100.1	6.53					73550	10770
1.201	8,559	23518	24849	-,33368	41297	41136	
	40 a42	24500	-,25392	35778	42015	47393	28188
103.1	3000		80000	74247	יישנוטיי	FURTH	90500
			CONTO		*****		-

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TABILATED SOURCE DATA, LARC 8FT.-667 (IA-41)

BATE 12 JUL 74

LRC 8 TPT 667 IA41 TIPISIP201FR1

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(Red102) (29 JAN 74)

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.000 RUDDER =

ALPHA =

PARAMETRIC DATA

REFERENCE DATA

976.DDDD INCHES .DDDD INCHES 400.000D INCHES SREF = 2699.0000 SA.FT. LREF = 1290.3000 INCHES BREF = 1299.3000 INCHES SCALE = .0150 SCALE

5. 8
-5.00/
INTERVAL =
GRADIENT
3.20
RN/L =
10/0
RUN NO.

8	25526	23901	22674	~,21902	21461	20124	19518	198:4	20478	21541	23212	.00282
3	44996	-,43804	42287	46794	38765	36975	-,34738	32397	30739	29907	29114	.00959
Š	38872	37610	35927	33715	30986	28082	24779	22350	20887	19614	18640	.01332
E	-,43334	-,42635	41861	41226	40653	40607	41332	-,-2095	43050	-,43849	-,44671	00111
22	-,24862	23218	21892	20563	19468	18858	19175	20221	21346	23007	25123	.00045
ಕ	23887	22176	21038	-,19725	18336	17341	17941	19002	- 20503	22526	24797	.00085
BETA	-10.939	-8.733	-6.555	-4.369	-2.190	029	2.148	4.321	6,507	8.705	10.901	GRADIENT
										609		

9/0 RW/L = 1.91 GRADIENT INTERML = -5.00/ 5.00 RUN NO.

	BETA	8	82	£	ç	S	6
	-10.7:7	25740	26342	42201	40705	43741	27499
	555	23542	24338	41636	39348	42338	25316
	9.414	22235	22848	40807	36950	39781	24267
	1.281	-,21075	21608	39803	33936	37540	22978
	-2.148	19742	20478	39589	30799	35843	21874
	2	18787	-,19798	39316	26935	33852	20574
	2.112	-19309	20183	39879	24061	32383	20546
	4.246	20632	21379	41227	22061	30881	21198
	6.385	-,22269	22701	42081	20366	29572	21873
	8.518	24118	24336	42889	19216	29137	23248
	10.685	26145	26275	-,43523	19028	28826	24977
•	PANTENT	COUL	CONTAG	00147	01730	7A77A7	.00229

REFERENCE DATA

LRC 8 TPT 667 IA41 TIP1SIP2OFRI

(Reside) (29 JAN 74)

8

.000 RUDDER =

ALPHA :

PARAMETRIC DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2042 ... 2742 ... 2742 ... 2699.0000 SA.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE SCALE :: SCALE ::

6/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

CP631494290462635025237247392632726327263272632726327
CP5 -,4636 -,40361 -,3690 -,3272 -,34147 -,32546 -,32546 -,32546 -,32546 -,32546 -,32546 -,32546 -,32546
CP4 44064 58208 35835 27528 25461 21095 20104 20104
CP3 44367 44363 402165 39916 41415 42645 45934 45934
CP2 31169 28492 25198 2362 23719 23719 24844 24846 26788 26788
CP1305732766628178235732259012290162906631643
BETA -10.680 -6.686 -6.501 -4.346 -2.126 008 6.476 6.476 8.642 10.642
##C# #906. #906. #909. #999. #999. #999. #999.

7/ 0 RN/L = 2.05 GRADIENT INTERML = -5.00/ 5.00 REN KS

g	-,42299	39244	36848	35335	33829	33561	31697	-,32231	34616	36786	39609	.00383
£	60910	59019	56626	53679	49472	46572	45428	42007	39548	36999	-,35634	A2210.
5	55594	53937	52258	50426	46578	41744	39474	36482	33035	30434	30502	.01606
£	51484	51156	50244	48596	47611	48256	48330	48883	50695	52442	53496	-, 07059
8	39233	37033	34530	33057	31400	31446	31106	-,32936	35804	37893	39861	52000
દ	-,39002	36464	33936	32436	30579	30370	30704	33164	36149	38340	40536	OMO73
BETA	-11.039	-8.770	-6.580	4.378	-2.194	021	2.155	4.338	6.534	8.726	10.959	COADIENT
¥Q¥	.981	1961	.991	.981	980	086	.980	.979	.979	.978	978	

LRC 8 TFT 667 1A41 TIP1SIP2OLFRI

(Reside) (29 JAN 74)

900

.000 RUDDER =

ALPHA =

PARAMETRIC DATA

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES * 2890.0000 94.F7. * 1290.3000 INCHES * 1290.3000 INCHES * .0150 SCALE SCALE ::

6/ 0 RN/L = 2.11 GRADIENT INTERWAL = -5.00/ 5.00 £ 5

CP2 CP3 30811 42482 29442 41734 28190 410888

LRC 8 TPT 667 1A41 T1P151P201

(Rg6103) (29 JAN 74)

PARAMETRIC DATA

. 600.

.000 RUDDER =

ALPHA :

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES DARTE III SKEF = 2690,0000 SQ.FT. LREF = 1290,3050 INCHES BREF = 1290,3050 INCHES SCALE = .0150 SCALE

RUN NO. 15/ 0 RN/L = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

8	25115	22563	21213	21286	-,20682	20250	19952	20008	20818	21433	22965	.00153
£	-,43457	-,43473	42570	37571	36549	33674	31380	29775	29397	30071	29557	.00929
Z	37357	36416	-,35243	32495	29942	2669Л	-,23392	20669	19160	19006	18447	.01385
£	43174	43303	42824	40774	40320	-,39944	39637	40318	41054	41706	42264	57000.
8	24818	21901	20284	20617	19427	18956	19463	20617	21917	23131	25219	-,05559
£	23271	20831	19379	19495	18593	17301	17499	19240	21148	22321	25222	2000
BETA	-10.743	-8.711	6.479	-4.382	-2.153	180	2.124	4.375	6.540	8.718	10.870	COADIENT
		599										

RUN NO. 14/ 0 RN/L = 1.91 GRADIENT INTERWL = -5.00/ 5.00

2	26648	24173	22488	20943	20233	20593	20352	19437	20174	21926	24198	.00136
£	43689	42998	41416	38932	-,36716	31466	28559	29850	29877	29413	29051	.01233
3	40456	39084	37239	34136	30965	25886	22077	21371	20138	18977	18851	.01612
E	43353	42809	42073	40889	39941	39077	39428	39675	45293	41107	41868	.00138
8	25123	22881	21273	19960	18937	19323	19863	19938	21016	23004	25358	-,00041
£	24490	22260	20703	19498	18377	17763	18470	19635	21183	23298	25684	00017
BETA	-19.731	-8.567	-6.336	4.308	-2.144	025	2.118	4.245	6.365	9.531	10.643	GRADIENT
5	794	794	.795	794	794	794	797	795	794	794	793	}

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80.
                        (Res103) ( 29 JAN 74
PAGE
                                                                           RUCCER
                                                 PARAMETRIC DATA
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-.35568
-.33620
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                                                                              ALPHA
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-.43303
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                                                                               976.0000 INCHES
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400.0000 INCHES
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-.29440
-.26758
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-.31387
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-.34540
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-11.017
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-10.776
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2.153
4.349
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10.659
6400 ENT
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                                                                                  2690.0599 50.FT.
1290.3599 INCHES
1299.3599 INCHES
.5159 SCALE
        CATE 12 JU. 7:
                                                                                     SAD ::
LAGF ::
BAGF ::
SCALE ::
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}

7

LRC 0 TPT 667 IA41 T1P1S1P200

(Re6104) (29 JAN 74)

PARAMETRIC DATA

900

.000 RUDDER =

BETA

INCHES	INCHES	INCHES	
976.0000	.0000 INCHES	400.0000	
44	##	11	
	YHEEP	2 8 69	
Se.FT.	INDIES	INCHES	2117
2690.0000	: 1290.3000 INCHES	1295.3555	23.60
44	**	*	
þ	#EF ==	Ð	

REFERENCE DATA

	8	22066	21871	21608	21211	20782	20214	19626	19326	18837	17897	17628	.00217
-5.00/ 5.00	£	39013	39102	-,39696	37415	35287	33324	32559	32868	34072	36028	35759	.00518
INTERME = -5.	ž	34650	33514	33245	~.31306	28264	26380	25118	24586	24828	26267	-,27517	.00727
RADIENT INT.	g	47496	-,46185	44398	42077	40628	39821	39362	38764	38152	-,37619	37084	.00346
3.18 GR	8	21410	20755	20031	19631	19451	19035	18468	18090	17751	17430	17392	£ 100°
C RNAL =	£	20379	19538	18724	18137	:7795	17097	16228	15336	14489	14139	14085	.00315
NO. 26/ 5	ACHA	-12.002	-9.504	-7,305	4.972	-2.787	496	1.842	4.094	6.340	8.613	10.883	GRADIENT
2	MCH	.599	6 09	659.	.599	.599	.599	.599	•600	.598	909.	909	

5.00
-5.00/
INTERVAL =
GRADIENT
1.89
RNL =
25/0
RUN NO.

9	23957	23171	22695	21751	21007	21016	21063	20796	20282	20145	20282	DONAL.
8	38105	40070	39106	37359	-,35260	30591	28841	29920	31304	33831	32985	17600
Š	34737	35527	-,34445	32460	29667	-,25466	23225	23189	24091	26606	28212	.01139
£	47788	4570£	43807	41440	39933	39437	38605	38562	38285	38602	39699	.00323
8	22941	21898	21110	20293	19729	19841	20018	19828	19495	19589	19674	62000
£	22370	21178	20348	19410	18572	17922	17628	17120	16464	16504	16510	.00252
AEA AEA	-11.301	-9.051	-6.958	-4.750	-2.577	344	1.805	4.027	6.273	8.390	10.564	GRADIENT
	26.											

(14-41)
LARC 6FT667 (1A-41)
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ABULATED SOURCE DATA
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SATE 12 JUL 74
CATE 11

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5		1000 = 976,0000 INCHES 1000 INCHES 1000 = 400,0000 INCHES
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	9	SATO = 2890,0500 (LRE) = 1290,5505 (RRE) = 1290,5505 (RRE) = 5155 (RRE)
		a z ä x

8.
-5.00/ 5.
S
INTERVAL
GRADIENT
1.99
12#
24/ 0
RUN NO.

8	28935	27126	25528	25745	25295	25371	25099	-,25112	24229	24514	24827	.00065
£	36556	-,36534	35413	33274	31425	30545	29314	35196	31770	34135	34603	50376
3	-,35257	-,35283	-,34069	32129	29494	-,25608	-,23379	23887	-,25711	35160	32969	.51511
E	51119	48812	-,46411	44202	42275	-,45967	38614	38522	39671	45468	42467	57525.
8	27500	26336	25826	25565	24538	-,24533	244.66	24477	23819	24653	24826	65000
ខ	27548	25715	24584	23818	23245	2225	22656	22313	21485	22e43	23344	.00163
AFA	-11.633	-9.351	-7.147	-4.947	-2.653	369	1.846	4.083	6.238	8.550	15.745	GRADIENT
#CH	.899	106.	669.	668	775	206.	689	689	658.	668	66.85	

3	
-5.00/ 5.00	•
INTERVAL =	1
GRADIENT INTERVAL	
2.53	
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23/0	
S. S.	

			-,36747									
£	48835	46117	43891	42818	42378	42298	42887	46233	48122	55682	51557	10233
Š	48279	45016	43735	42733	41157	38566	37485	39449	4:746	45664	48162	, , , , ,
E	54692	67223	55369	48383	46910	48455	48997	49286	49390	49366	50185	
8	37846	36389	35242	33725	32975	-,33261	33115	33721	-,33195	32769	-,32667	00000
£	3737D	35928	34335	32239	31174	31025	31187	32126	31562	30390	2969	
ALPHA	-12.555	-9.612	-7.359	-4.966	-2.781	£73	1.825	4.532	6.345	6.557	15.815	
Š	286	080	.981	286	96	280	979	286.	286	286.	086.	

PAGE 59

LRC 8 TPT 667 1A41 T1P151P204

(Restou) (29 JAN 74)

99

.000 RUDDER =

BETA

PARAMETRIC DATA

REPERÊNCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2595.5030 INCHES 1295.35030 INCHES 1295.35030 INCHES .0155 SCALE

SCALE:

	8	37919	35447	32929	29990	29870	30849	30952	30479	29863	29145	28967	00084
-5.00/ 5.00	£	46395	-,46721	46430	46062	44970	44538	45068	45936	47242	47857	47676	00145
INTERVAL = -5.	Š	43293	-,42525	40984	39459	38543	37445	37640	39568	41150	42068	-,43033	00136
RADIENT INTE	E	-,44610	-,44495	43680	42154	40783	39920	40061	40064	38757	37132	37117	78000
2.10 GR	2	35787	34152	32490	30698	29847	29530	29230	28463	27848	27312	27517	06100
BRAL =	£	35787	34214	32615	30567	28546	27460	27508	26615	26045	25481	25951	5000
NO. 22/0	AE JA	-12.356	-9.982	-7.595	-5.183	-2.934	522	1.809	4.096	6.402	6.632	10.945	COADIENT
22			1.201										_

LRC 8 TPT 667 1A41 T1P1S1F200

(REBIOS) (29 JAN 74)

-20.000

.000 RUCCER =

ALPHA =

PARAMETRIC DATA

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES = 2690.0000 30.FT. = 1295.3000 INCHES = 1295.3000 INCHES = .0150 SCALE SAEF = LREF = BREF = SCALE =

21/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

8	25105	22838	21894	22359	21976	21612	21484	21715	22496	23349	25562	77000.
£	43467	43532	-,42385	37440	-,35533	33700	31635	30369	29809	-,30358	30017	.05831
3	37522	36698	-,35464	-,32576	30016	26764	23715	21471	19527	19244	19160	.01312
E	43033	43212	43037	41064	40451	40064	45223	41083	41651	42219	43216	65555
8	24966	22562	21463	22514	21563	20930	-,21592	22943	24243	25428	28159	55541
ទ	23122	21463	20637	21551	21151	19754	20159	22222	24198	25755	28259	00016
BETA	-10.896	-8.769	-6.511	-4.352	-2.181	556	2.171	4.335	6.486	8.765	10.831	GRADIENT
	_	_	.599	_								_

20/0 RN/L = 1.69 GRADIENT INTERVAL = -5.00/ 5.00 fun no.

8	26590	24569	23181	22179	21407	22523	22369	21288	22316	23837	26425	£0000°
Ē	43962	43218	41511	39259	36957	31540	29138	-,29999	30546	29472	29139	.51235
đ	45818	39546	37372	348:4	31392	26115	22945	21433	20402	19592	18957	.01646
E	43658	43283	42521	41582	45762	39831	45210	40652	41312	41901	42872	.00122
8	25287	23475	22155	21335	20769	21488	2222	22575	23436	25165	27882	00136
5	24641	22792	21559	-,20932	20568	20615	21283	22233	23940	25806	28626	00155
BETA	-10.751	-6.573	-6.365	4.309	-2.124	034	2.099	4.268	6.365	8.528	10.729	GRADIENT
		.601										_

TABILATED SOURCE DATA, LARC 8FT667 (1A-41)	LRC 8 TPT 667 1441 T1P1S1P204
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PARAMETRIC DATA

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(Res105) (29 JAN 74)

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REPERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2690.0000 34.FT. 1290.3000 INCHES 1290.3000 INCHES .0130 SCALE SREF = LREF = BREF = SCALE =

1.99 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO. 19/ 0 RN/L = CPS
-.31521
-.22245
-.27:94
-.25631
-.26660
-.26660
-.25659
-.27652
-.31501 CP5 -.45539 -.4435 -.42143 -.39848 -.29850 -.29885 -.31913 -.31913 -.31459 -.30165 CP4 -.43960 -.42307 -.39796 -.36609 -.2564 -.22739 -.21582 -.20841 -.20841 -.20841 CP3 -.45964 -.44157 -.44157 -.41672 -.41015 -.42653 -.43242 -.44127 -.45156 CP2 -.30457 -.27908 -.26911 -.26912 -.26912 -.25906 -.27417 -.30163 -.33950 -.33950 CP1 - . 29875 - . 27326 - . 25464 - . 25464 - . 25544 - . 25544 - . 25547 - . 25547 - . 25547 - . 25547 - . 25547 - . 25647 - . 25647 - . 25647 - . 25647 - . 25647 - . 25647 - . 25647 - . 26017 8 BETA -10.894 -6.700 -6.471 -2.187 -.016 2.146 4.365 6.515 6.515 6.515 6.515

GRADIENT INTERWAL = -5.00/ 5.00 2.05 **1** 0 RUN NO. 17/

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(R86105) (29 JAN 74)

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.000 RUDDER =

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LEC 8 TPT 667 IA41 TIPISIP201

REFERENCE DATA

976,0000 INCHES .0000 INCHES 450,0000 INCHES 2690.0000 90.FT. 1290.3000 INCHES 1290.3000 INCHES 1290.3000 INCHES SEE :: SCALE :: SCALE ::

RUN NO. 18/ 0 RN/L = 2.11 GRADIENT INTERML = -5.00/ 5.00

8	76351		33456	A 31654		30643	30767		28518	27004	100.31	29102	20060	30000	P1276		.00431
£	1004	-	-,48694	A9110		47461	45786		41919	3006K	10000	34867	24033	こかまつ・	74774		.01073
ŧ.	10874	****	42363	44 KoK		40527	40609	30000	35129	37 172	041000	- 29399		63323	2007	4.603.1	.01011
£		41101	45718	40980	2000	-,39789	20010	3166C*-	39941	4 7 8 4 7	-,40013	40833		-,41524	49649	21034-	-,00013
2		1,747	32555	0000	D. D.C.	30286	0.000	55118	28724		2849	- 200£7		31774	7.36.	407000	.00287
ē		34706	178.05.		35240	2035A	200	C/CR2	28641		28837	F070F		32454		.3424/	.03160
RETA		426.9	A Kik		4.439	1916	3	032	2714		5.399	6.73	3,60	A. 912		3::5	CRADIENT
2	Ş	1.201	- 500	102.1	1.201	- 500	103-1	1.251	100	10301	1.201		1.2.1	1500		1.201	

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(Rest06) (29 JAN 74)

PAGE 64

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.000 RUDDER =

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PARAMETRIC DATA

LRC 8 TPT 667 1A41 TAP651P204

REFERENCE BATA

976,0000 INCHES .0000 INCHES 400,0000 INCHES = 2895.000 30.FT. = 1295.3005 INCHES = 1295.3000 INCHES E = .0150 SCALE אנת ב הנה ב הנה ב מנה ב

31.0 RN.L = 3.18 GRADIENT INTERML = -5.00/ 5.00 RUN NO.

8	22110	21990	21762	21136	-,20579	20124	19569	19235	18940	17824	17533	.00210
£	39150	39520	39364	37118	34972	33303	32230	32671	34237	36594	35993	.00487
ક	34617	33581	33132	31008	-,27787	-,26488	24975	24516	24893	26236	27697	.05687
E	47371	46232	44380	41934	40722	40065	39285	38795	38139	37531	37103	.00336
2	21311	20717	20150	19649	19295	18956	18381	18088	17823	17386	17364	.001 76
£	20240	19457	18799	18163	17675	16997	16159	12319	14564	14117	14181	.00315
AFSA	-11.733	-9.371	-7.172	-4.856	-2.615	378	1.945	4.318	6.458	6.737	10.968	GRADIENT
Ž	.599	.599	.599	109	599	.599	.599	209	.599	609	109.	

RUN ND. 35/0 RN/L = 1.89 GRADIENT INTERML = -5.00/ 5.00

8	23941	23092	22390	21580	20018	20882	21200	20778	20313	19973	20200	.00055
£	38043	39937	38537	36907	34266	29803	28539	-,30166	31311	33439	32925	FRAGA
Š	34713	35358	33941	31742	28631	24625	22886	-,23160	24110	26392	28501	CE010.
8	47809	45523	43253	41099	39634	39401	-,38594	38732	-,38294	38415	39793	CASEA
8	22887	21858	21048	20212	19659	19624	20038	19849	19590	19431	19683	ALCOO.
ē	22366	21111	20204	19353	18503	17852	17674	17140	16481	16452	16573	1750A
A) P(4)	-11.433	-9.037	-6.790	-4.695	-2.489	256	1.900	4.195	6.359	6.511	10.676	COARTEME
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LRC & TPT 667 1A41 T4P651P204

(R@8106) (29 JAN 74)

PAGE 65

PARAMETRIC CATA

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.000 RUDDER = BETA 976.0000 INCHES .0000 INCHES 400.0000 INCHES

RUN NO. 29/ C RH/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

CP6 - 28352 - 27202 - 25552 - 25553 - 25509 - 24017 - 24376 - 24376
CP53643636650351362558325583291473013132079336847
CP4 35129 35440 31329 28424 25007 23096 2457 29811 33244
CP3 50619 48805 45887 41744 40704 38281 38249 39524 40536 42536
CP2
CP 26660 - 25689 - 24615 - 23117 - 23139 - 22430 - 22430 - 21745 - 23244 - 23244 - 23246 - 20155
APA -11.546 -9.239 -6.963 -2.446 -2.466 -2.246 -2.268 6.483 6.483 6.483 6.483
#

28/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

11.966 12.17.1.7. 17.17.1			47405 45544 43817 42508	47896 46202 43738	39889 37961 36693 34995
-2.667 -2.376 -3.376 -4.165 -6.401 10.904 RADIENT	-30274 - 32808 -30864 - 32808 -31966 - 33893 -3132 - 32831 -28321 - 32987 -28384 - 31789 -00011 - 00035	0846765 9047495 3148252 8749010 404899 894895	46749 38157 37422 38962 46023 46504	-41618 -42063 -42805 -45463 -48577 -51137 -60321	34079 33956 34387 3466 33966 33272 35022

SATE 12 JUL 74

REFERENCE DATA

* 2690.0000 99.FT. * 1290.3550 INCHES * 1290.3550 INCHES * 5150 SCALE

SALE :

TABILATED SOURCE DATA, LARC 8FT.-667 (IA-41)

LRC 8 7PT 667 1A41 TAP6S1P201

(Res106)

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.000 RUDDER =

BETA

PARAMETRIC DATA

976.0900 INCHES .0990 INCHES 400.0960 INCHES MARP TARP

2.11 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO. 27/ 0 RIVL =

CP6
-.37905
-.36404
-.33465
-.30521
-.31013
-.31111
-.31111
-.31111
-.30364
-.29566
-.29566 CP5
--46701
--46907
--46812
--45812
--45186
--45522
--45522
--45522
--47561
--47761 CP4 -.43576 -.4292 -.41484 -.38138 -.38179 -.40216 -.41540 -.4274 -.43674 -.43674 CP3 -.44793 -.44644 -.45820 -.40293 -.40067 -.40067 -.38703 -.36899 -.37193 CP1
-.35820
-.34436
-.32800
-.30665
-.28828
-.28030
-.27208
-.26653
-.25581
-.25581 ALPHA -12.416 -9.953 -7.395 -2.757 -.457 1.1655 6.482 6.685 11.009 66ADIENT MACH 1.201 1

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SEED :: LAED :: BRED :: SCALE ::

2695.0500 90.FT. 1295.3505 INCHES 1295.355 INCHES 50150 SCALE

REFERENCE DATA

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LRC 8 TPT 667 1A41 T4P6S1P2UI

(Restor) (29 JAN 74)

PAGE 67

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.000 RUDDER =

ALPHA =

PARAMETRIC DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 11 disease :: 43 F = 2695.5050 54.FT. F = 1295.3050 INCHES F = 1295.3050 INCHES E = .0150 SCALE SKEF = LKEF = BKEF = SCALE =

REFERENCE DATA

36/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

			_															-,31351 -,20036 -,29889 -,20036 -,29398 -,205111 -,29641 -,21036 -,29458 -,22945
3	37495		36924	35412		32583	30359		2000	26984	25984	256984	23466 23466 20980	25984 23466 20980 19360	25984 23466 20980 19360	256984 23466 20980 19360	26984 23466 20980 19360 18605	26984 23466 19360 18605
£	43043		43539	A295A		41009	49529		2000	40050	40050	40050	40050 39947 45498	40050 39947 40498 41381	40050 39947 41381	40050 39947 45498 41381	40050 39947 40498 41381 41522	40050 39947 40498 41381 41522
2	- PANKT		22153	STATIS		20824	19465			18683	18683	18883	18683 19561 20615	18883 19561 20615	18683 19561 20515 22022	18683 19561 20515 22022	18683 19561 22022 22043	18683 19561 20515 22843 22843
5	GARRO	000000	20917	10111	*****	19661	1857A			17253	17253	17253	17253 17568 19995	17253	17253 17568 19595 21195	17253 17568 19795 21190	17568 19795 21190	17253 17568 19795 21190 22533
RETA		736.01-	-8.745	E KEE	0000	-4.384	9.0	0777		000-	030	2.132	2.132 4.292	2.132 4.292 6.485	2.132 4.292 6.485	2.132 4.292 6.485	2.132 4.292 6.485	2.132 4.292 6.485 10.884
3	5	ទី	£U.		3	67.10				655	ទូទូ	ន្ធ ន្ធ ទ	ន្ធន្ធន្ធ	ទូទូទូទ	ន្ទន្ទន្ទ	ទូទូទូទូទូ	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 8 8 8 8

RUN NO. 35/ G RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

8	~.26793	24661	22458		2127	20620	20917	20534	19701	20221	21870	24484		.00148
8	43636	43107	76117		29094	36835	31500	28634	29832	29850	29302	20136		.01253
3	40652	39565	17002		34650	31265	26405	22220	-,21496	20318	-,18956	18854	10000	.01657
£	43441	43150	42104	1010	41213	40189	39444	39658	39851	40370	41086	41060	nonte:	.00153
8	-,25252	27246	23276	CC13	20231	19225	19677	20344	- 20037	21073	22005	26.730	3/4030-	00020
5	24632	22484	2000	09073	19702	18678	18031	18565	19714	20116	261170	2000	ccacz.	.0000
BETA	10.720	- Ke7		24.0	7.300	-2.174	700	7 175	200 7	4.6.30	0.270	12:0	10.667	GRADIENT
7			200	108.	900	50	8 8		9 6	8	3 6	77.	. 799	

LRC 8 TPT 667 1A41 T4P6S1P204

(R26107) (29 JAN 74)

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.000 RUDDER =

ALPHA =

PARAMETRIC DATA

REFERENCE DATA

976.DODD INCHES .DDDD INCHES 400.DDD INCHES 2007 2007 2007 2007 SAEF = 2699,0000 54,FT.
LREF = 1290,3000 INCRES
BREF = 1290,3000 INCHES
SCALE = .0150 SCALE A 700 A 000 S Na

2	75 NO.	¥	2 "	96.1	RADIENT INTE	INTERWAL = -5.	-5.00/ 5.00	
₩.	BETA		£	8	E	3	£	\$
906	-10.868		29774	30493	45961	43598	45378	31788
006.	-8.6		27214	27889	45254	42193	44229	29347
306	-6.5		24971	-,25574	43938	.39890	42169	26898
906	7		-,23272	-,23633	42218	36572	39493	24395
306.	4.4		22507	22724	41017	33079	36389	23012
.9 00	٠ <u>.</u>		22876	2444	40926	25633	29439	25002
. 899	2.1		22679	23685	41554	22990	29886	24697
206.	4.2		23437	23162	41594	23009	32276	23427
668.	4.9		25300	24833	42029	21989	31865	24982
.899	8.6		28176	27656	-,43243	21053	31149	28188
668.	10.7		.31424	35846	44346	21040	30524	30648
	GRADIE		.00023	00001	.00033	.01724	02600	.0001

RUN NO. 33/ 0 RIVL = 2.05 GRADIENT INTERNAL = -5.00/ 5.00

8	43192	39473	35680	33406	32569	33862	33296	31007	33195	-,36364	40104	. On tak
£	56699	56520	55603	53687	48436	43604	41081	41693	40211	38216	36337	.01438
ğ	51282	50899	50013	48642	45406	-,40551	36336	36506	33722	31320	31142	.01529
E	52240	52218	59771	48671	47696	48363	48510	48052	49464	51180	52169	.00020
8	41219	37141	33677	31464	31377	32755	31917	31150	-,34092	37327	40195	,0000
£	40790	36511	33217	31197	30620	30895	30701	31410	34576	37785	40812	0002
BETA	-10.986	-8.792	-6.589	-4.412	-2.212	030	2.146	4.319	6.520	6.721	10.927	GRADIENT
										.980		

LRC 8 TPT 667 1A41 T4P651P201

(R88107) (29 JAN 74) PARAMETRIC DATA 900

.050 RUDDER =

ALPHA =

976.0000 INCHES .0000 INCHES 400.0000 INCHES SREF = 2690.0550 30.FT. LREF = 1295.3500 INC.ES BREF = 1295.3555 INCHES SCALE = .0130 SCALE

REFERENCE DATA

32/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

8	35788	32739	31167	29935	-,39747	29224	27468	28541	-,35691	31923	.00368
£	-,49299	48952	-,48389	-,47118	-,45756	-,42960	39450	35052	34866	-,34638	.01001
ž	42795	42695	41789	39933	38523	35902	33414	29762	29125	28752	.60944
E	41404	45810	40307	39684	40035	40026	-,40099	-,40691	41761	42228	.00003
8	34829	32542	35422	29791	29326	28495	27613	29217	31535	32640	.52314
5	34851	32038	29941	28895	27468	27458	27844	2975:	32543	33095	.00256
BETA	-6.924	-6.687	-4.445	-2.230	042	2.175	4.361	6.576	8.845	9.974	GRADIENT
		1.251									

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(Red106) (29 JAN 74)

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.000 RUDDER =

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976.0000 INCHES .0050 INCHES 400.0000 INCHES 1890.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES 1290.3000 INCHES SAGE :: SKALE ::

2	I NO. 41/ S	O RIVL =	3.18	RADIENT INTE	INTERVAL = -5.	-5.00/ 5.00	
Ž	BETA	Š	8	E	ž	£	8
905	-10.937	23247	24869	-,43117	37494	43706	25336
5	-A. 775	20974	22156	43423	36825	43784	22953
98	-6.572	19482	-20403	42865	35383	-,42658	21300
14.5	4.426	19076	20155	41128	32674	38506	21068
5	2.216	18153	-,19576	40531	30372	36759	20587
8	053	17196	16831	39969	27046	34172	20075
8	2.140	-,17516	19495	79797	23410	31546	19932
9	4.297	-,19168	25615	40396	25981	30048	19992
8	6.488	21976	21891	45983	19285	29506	20709
9	8,682	22693	22901	41482	18761	29804	21566
979	10.867	25150	25129	42273	18386	29483	22833
	GRACIENT	.00021	00061	.00101	.01392	.01015	.00129

RUN NO. 45/0 RN/L = 1.89 GRADIENT INTERML = -5.00/ 5.00

£	26746	24257	22600	21244	20502	20877	20430	19408	20362	22501	24575	.00176
£	43612	42787	41348	39161	36913	30702	28625	-: 29976	29884	29307	28972	.01248
4	40599	39041	37133	-,34613	-,31286	25594	21966	21359	20151	18831	18762	.01678
E	43288	42781	42001	-,40997	-,40036	39266	39532	-,39654	40323	45964	41943	.55149
8	25283	23023	21391	20213	19186	19743	20044	20029	21244	23513	25670	00023
£	24636	22415	20805	19685	18638	17996	18643	19655	21261	23221	25978	.59002
BETA	-10.739	-8.595	-6.439	4.312	-2.166	045	2.089	4.234	6.358	8.493	10.674	GRADIENT
	_			799	_							

PAGE 71	(R88158) (29 JAN 74)
TABLLATED SOLACE DATA, 1 ARC 8FT687 (1A-41)	LRC 8 TPT 667 1A41 T2P4S1P201
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976.000 11 .0000 11 405.0000 11
10 45 45 11 12 12 12 12 12 12 12 12 12 12 12 12
2895,0000 90.fT. 1295,3000 10CHES 1295,3000 10CHES .5155 SCALE
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.000 RUDDER =

ALPHA =

PARAMETRIC DATA

PAGE 71

901 -10.8913505835765455284384943423 903 -8.5962750727813451264191044101 .899 -6.5472450725437438133956841968 .899 -2.2122252022738419883554435654 .899 -5.482252022738459883355435953 .8995482255222738419883355425953 .8995482255323538415552288535073 .89954272253124535412282278131550 .8992265523538412282278131550 .8992265523538412282278131550 .8992265523538412282268730955 .8992265528313245962569730955 .89922698127776425482569730955	5	1 NO. 39/ C	2 KWL -	1.30	MANUEL INI			
-10.8913050830765452843849 -8.69627207278134512641910 -6.54724950254374383339508 -4.38623271255564218436541 -2.2122252022738459883350454822921245514552224624 2.10222803235384151522981 6.42723409231794164422981 6.42725331249304162821721 8.61225333277764152920697 15.79231532315784253920697	Ž	BETA	દ	8	E	25	£	8
-8.69627207278134512641910 -6.54724900254374381339508 -4.38623271235564218436541 -2.21222520227384598833504 54822921245514552224624 2.10222695235384151522981 6.4272533124930416282091 15.79231532317764324920697 15.79231532315784239820697	106.	-15.891	-,30008	30765	45228	43849	45425	3189
-6.54724900254374381339508 -4.38623271235564218435541 -2.2122252022738459883350454822921245514562224624 2.10222603235384151522981 4.27322409231794162422981 6.42725331249304162821721 8.61225183277764153920697 15.79231532315794153920618	556	-8.696	27257	27813	45126	41910	44101	2895
-4.36623271235564218435541 -2.21222520227364598833554355443564435644356443564435646355464598835554226242262422624226242262422624226312463422631 15.792315323157844239425697 15.792315323157844239425697	668	-6.547	24955	25437	43833	39508	41958	26513
-2.21222520227364598833504 5462292124551455224624 2.15222653235384151522981 4.27322459231794148422981 6.42725331249354152821721 8.61228183247764154925697 15.7923159231594439425618	558	-4.386	23271	23556	42:84	36541	39660	-,24349
2.1G222921245514562224624 2.1G222655235384151522985 4.27322469231794146422981 6.42723331249354162821721 8.61223331249354162821697 15.792215523157844394256818	669	-2.212	-,22525	22738	40998	33554	36963	2354
2.10222655236384151522985 4.27323409231794142422981 6.42725331249354152821721 8.61226183277764354920697 15.79231532315784459820818	668	840.	22921	24551	4C622	24624	29159	2518
4.27323409231794148422981 6.42725331249354152821721 8.61226183277764354920697 15.79231532315784429820818	669	2,152	22655	23538	415:5	22985	35577	24425
6.42725331249354152821721 8.61226183277764354520697 15.79231532315784429820818	899	4.273	23459	23179	-,41484	22981	32376	23306
8.61224183277764124520697 15.79231532310784429820818 FRANTEST - FADA - FADA - 11740	689	6.427	25331	24935	41628	21721	31650	25555
15.79231532315784459820818	86	8.612	28183	27776	-,43549	20697	30905	28374
במינונית בינונים לינונים לינונים בינונים בינונ	96	15.792	31532	31578	-,44398	25818	35369	35766
*****	}	CRACIENT	7:555	20003	.55541	.01749	26600.	55003

3	Š	38/ 0	0	EN.	2.35	GRADIENT INTE	NTERVAL = -5.	-2.00 vo.c-	
ğ	8	5	-	£	8	g	3	£	£
086	-	615	ŧ	45766	41213	52220	51256	56812	42826
086	-8.818	818	•	36661	37.01	52815	51225	-,57565	38875
676	φ	299	•	.33035	33415	55649	49435	54874	35189
C86	7	121	٠	.31168	31455	48746	48717	53323	33292
280	-2	233	٠	30711	31446	47626	45813	48429	32470
676	•	20	*	.35773	32845	48124	39085	42457	34576
979	, 2	118	١	35686	31630	47396	37651	42965	-,32988
979	•	307	1	.31622	31438	47746	37751	42935	-,31334
979	6	193	ľ	34226	33811	49126	34583	40905	32890
676	60	5	Ĭ	37273	36737	50913	31718	39512	35654
776	15	832	ť	40510	39531	51752	31536	36694	39439
	COADI	2	Ĭ	5000	50007	.00102	.01379	.51203	.00156

LRC 8 TPT 667 IA41 T2P451P2OF

(Ree106) (29 JAN 74)

REFERENCE DATA

976.0900 INCHES .0000 INCHES 400.0900 INCHES

SANE ::

.000 RUDDER = ALPHA =

900

PARANETRIC DATA

	8	36407	33904	32117	30767	31235	29035	28561	29439	30980	32320	.05446
-5.00/ 5.00	£	49810	-,49591	49235	48388	46772	-,43747	40020	36019	35940	35566	.01045
INTERVAL = -5.	Z	43319	-,43307	-,42954	41470	39573	36946	33901	-,30636	30050	29315	.01020
PRADIENT INTE	E	41638	41319	49772	39862	-,40031	-,39993	40569	41274	42263	42679	.00013
2.12	8	-,35469	32872	-,31247	30571	30074	28777	28426	30043	31988	33147	.00337
e RWL =	E	35435	32753	30782	29778	28382	29286	28672	35486	32467	33573	.02239
NO. 37/	BETA	-6.925	-6.692	4.474	-2.252	039	2.145	4.366	6.594	6.633	10.006	GRADIENT
2	HCH HCH	102.1	1.202	1.203	1.203	1.203	1.203	1,203	1.252	1.251	1.251	

2. T 12 14. %		TABUL	ATED SOURCE	DATA, LA	TABILATED SOURCE DATA, LARC EFT667 (1A-41)	(14-41)			PAGE	π π
		3	LEC E TPT 667 1441		12P451P201			(RQ\$159)	19) (29 JAN 74	. 27 K
REFERÊNCE CATA	2							PAPANETRIC DATA	: CATA	
9-FF = 2695.5555 54.FT. LEFF = 1295.3555 IMPES 8-FF = 1295.3555 IMPES SCALE = .5155 SCALE		1 1 1 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	976.0005 INCHES .0005 INCHES 405.0005 INCHES				######################################	950.	# HDDE# =	88°.
	9 5	0. 46/ 0	S FIVE =	3.18	GRADIENT INTERVAL =		-5.50/ 5.55			
i	,	7	5	8	E	3	£	£		
	97.0	788.11-	25395	2:393	•	34691	38966	21982		
	5	-3.588	19543	25756		33672	39256	2:631		
	ij	-7.353	19721	23518	-	3333;	39614	21646		
		656.7	50:00	-13473	41522	31533	37459	25962		
		-2.763	-17524	19:47	40548	28554	35692	25523		
, ~.	Ş	i,	-16353	1.10000	-,39984	-,26559	33788	.1996:-		
	5	1.743	16165	Zee	39263	25251	32543	19522		
		7:17	1532:	18057	38749	24497	32931	-,19243		
	5	6.332	1.45.55	: 7753		24774	33976	18773		
	655	165.8	14251	:75:1	·	25563	35415	4:18014		
	67.5	25.875	1.14:50	17455	-,37534	27563	35759	17550		
•		CRACIENT	.00307	50.00	.55342	30700.	.95545	.57.9a		
	S. NO.	5. 45/6	5 ENL =	1.83	GRADIENT INTERVAL =		-5.05/ 5.05			
ì	,	d	5	8	E	3	Z	Z		
, A		-11.458	76522	2953	47863	34717	36123	24511		
		9	21182	21839	-,45751	35576	40195	23259		
	657	6.548	25324	21125	43557	34060	36812	22546		
	5	4.73	12417	27286	41244	32537	37572	21655		
	799	-2.541	18456	19654	39756	29:56	34.888	20844		
	89.	351	18555	988:-	39505	24953	1,3505	.25934		
•	259.	1.833	17757	25526	38675	23:51	28851	750:27		
	89.	4.513	17575	15939	38625	233	.2887.	2:5:1		
	799	6.239	16542	19585	38364	24443	31579	20354		
•	8	8.435	16526	19536	38594	26352	33255	25552		
•	799	15.597	16666	15815	•	28533	32314	25385		
		GEACTENT	.52246	61000	.92287	.01156	.02937	3635		

			BETA =		9.00	£	-,36355	36464	34940	-,32868	31347	29567	29293	30052	32551	33436	34055	.00345	5.00	£	47552	45692	43680	42628	-,41554	41422	43244	46818	49107	50591	52361	05779
1-41)			•		M. = -5.00/ 5.00	\$	35004 -							23781			32417	29600*	N = -5.00/ 5.00	3			-		_		37394			·		•05562
TABILATED SOURCE DATA, LARC 8FT667 (14-41)	T2P451P201				GRADIENT INTERVAL =	£	50935	_	_			45877	38357	-,38383		45645	42135	.05658	GRADIENT INTERVAL =	g				-							·	55282
CATA, LAR					2.8	8	27460	26307	25585	25138	24576	24660	24659	24551	23691	24633	25163	.00549	2.05 68	8	37397	36611	34952	33636	32979	32556	33110	34183	33451	32399	32086	05186
NTED SOURCE	LRC 8 TPT 667 1A41		.0000 INCHES		ENJ. =	દ	2756	25654	24522	23957	23241	22957	22818	22430	21372	22999	23724	.55151	EW.	2	36813	-,36239	33963	32136	30998	30364	31545	-,32457	31816	35171	28752	05223
TABUL	רעכ		2.6	- 4 - 4 - 4	RUN NO. 44/ 6	AL PHA	-11.669	-9.388	-7.122	-4.858	-2.600	374	1.864	4.069	6.285	8.532	15.729	GRADIENT	NO. 43/ 0	A! PHA	-11.991	-9.657	-7.331	-5.016	-2.731	464	1.057	4.032	6.301	6.575	10.825	GRADIENT
		REFERENCE DATA		INCHES THEF SCALE	25		106.	200	556	.900	556.	669.	668.	668.	306.	.	25 6		RUN NO.	Ť.	976.	086.	.981	.981	.980	979.	.983	2 96.	.979	.979	.979	•
זע או		RUE	2695.5555	1295.3555 1295.3555 5135																												
CLIE 12 JU. 74				BED : SCALE ::																												

CP6 -.28760 -.27045 -.25141 -.25142 -.25150 -.25150 -.25150 -.25150 -.24661 -.24661

CP6 -.40236 -.38352 -.38640 -.35013 -.34426 -.34426 -.34426 -.34436 -.34436 -.34436

. 000

.000 RUDDER =

PARAMETRIC DATA

(Re6109) (29 JAN 74)

PAGE 74

PAGE 75

(Re6109) (29 JAN 74)

PARAMETRIC DATA

.000 RUDDER =

. 000

BETA

976.0000 INCHES .0000 INCHES 400.0000 INCHES

SECT = 2690.0500 54.FT. LECT = 1290.3550 INCHES BRECT = 1290.3555 INCHES SCALE = .0150 SCALE

AEFERENCE DATA

	0 7
8	CP5 47485
-5.00/	·
INTERVAL =	CP4 43619
PRADIENT INT	CP3
2.11 6	24499
RN/L =	CPI
MO. 42/ D	ALPHA
RUN NO.	Đ.

2	36733	35411	32869	29932	30641	31451	-,31692	-,31533	31038	30173	29899	50126
3	47485	47387	47455	47045	45593	45949	46061	47041	-,47904	48725	48321	00192
3	43619	43050	41865	-,40319	39139	-,38602	38569	41331	42055	42701	44081	00282
E	45026	-,45001	44287	42902	-,41339	40348	-,40206	40121	39121	-,37353	38057	.00164
8	34899	34104	32435	30846	30314	30358	35471	29710	29068	-,28220	28110	5000
£	35040	34213	32606	-30764	25062	28559	29213	- 282 TI	27504	26659	26417	57000
ALPHA	-11.185	9	-7.586	222	2 858	447	2	720 7	98.	A. 683	10.954	GRADIENT
Đ	1.201			107.		102.1	102.1	100	102.1	102.		

LRC 8 TPT 667 1A41 TIP1OC.

(Res110) (29 JAN 74)

PARAMETRIC DATA

8

.000 RUDDER =

BETA

REFERENCE DATA

976,0000 INCHES .0000 INCHES 400,0000 INCHES 8690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

SECF : BRCF : SCALE :

51/ 0 RN/L = 3.17 GRADIENT INTERML = -5.00/ 5.00 RUN NO.

£	19854	18893	18693	18555	18586	17166	15699	14597	14078	13418	13035	68:00.
£	01115	.00000	00000	00000	00000	.00000	.00000	.50550	.00000	01111	00000	00000
3	01134	01124	01123	01123	01122	01129	01119	01129	01160	01130	01127	00000
E	41403	39179	36659	33975	31841	29708	27744	26082	24166	22815	-,21675	.00942
22	19124	18588	18042	17385	16579	15593	14394	13597	13172	12990	12973	.05462
£	18529	18164	17667	17517	16130	14881	13562	12770	12708	12697	12660	.05524
ALPHA	-11.026	-8.860	-6.621	-4.372	-2.322	188	1.975	4.035	6.215	8.463	19.527	GRADIENT
									.600			

R.M NO. 50/ G RN/L = 1.89 GRADIENT INTERWL = -5.00/ 5.00

\$	22876	21906	20430	19288	18094	16554	15442	14759	14564	14610	15127	.00557
£	00000	.0000	.00000	00000	.00000	00000	.00000	.00000	00253	00000	00000	.00000
3	05254	00280	00253	00255	00251	00230	00281	00254	00278	00279	00253	00001
E	42415	39868	36515	34399	-,32428	30009	-,28309	27052	26329	26370	27064	.00895
8	20810	19660	18412	17375	16511	15490	14610	14132	14039	14111	14473	•6600•
દ	19924	18700	17560	16638	15755	14639	13690	13300	13450	13576	13866	.00415
AF 3	-10.700	-8.579	-6.524	-4.306	-2.277	105	1.970	4.078	6.171	6.321	10.413	GRADIENT
	908.											

LRC 8 TPT 667 IA41 TIP101

(R@6110) (29 JAN 74)

PARANETRIC DATA

.000

.000 RUDDER =

BETA

REFERENCE CATA

SKET = 2699.0500 SQ.FT. DORP = 976.0000 INCHES
LREF = 1299.3500 INCHES YMRP = .00900 INCHES
BREF = 1259.3500 INCHES ZMRP = 409.0500 INCHES
SCALE = .0190 SCALE

RUN NO. 49/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

	_			_								
8	24690	23651	22715	21338	19803	17681	16840	15974	:6494	17904	18846	.00638
E	20000.	.00000	.0000	.00000	.0000	.00000	05507	.00000	.00000	.00000	.00000	05523
3	00529	00528	00551	00551	00529	00551	00574	50529	00574	05574	00552	20000
g	40653	38473	36393	34507	32755	30872	30053	29476	28652	29536	31340	.05595
8	23926	22645	21497	25119	18831	17475	16973	16506	16839	17631	18285	.05414
ಕ	23778	22079	20752	19394	18536	16587	15983	15446	15747	17345	17751	.00464
ASA	-10.882	-8.741	-6.543	-4.397	-2.246	127	1.961	4.211	6.214	8.365	15,536	GRADIENT
							955					

RUN NO. 48/ 0 RN/L = 2.05 GRADIENT INTERNAL = -5.00/ 5.03

CP63659833567301962572224662244932544925449
CP5
CF400678006870074470000007100070700727007270072700703
CF347641466364396540415390743873839002400334162742049
CP231332307862910627221255652479724669251032520326057
CP139424396272913826630247452342823428241422431024078
ALPHA -11.037 -8.875 -6.691 -4.518 -2.374 -200 1.999 4.187 6.292 8.474 10.598
#

SOURCE DATA, LARC
TABILATED !
CATE 12 JU. 74
CATE 12

8FT.-667 (IA-41)

LRC 8 TPT 667 1A41 T1P104

(R@6110) (29 JAN 74)

PAGE 78

8

.000 RNDDER =

BETA

PARAMETRIC DATA

REFERENCE DATA

SREF = 2695.0050 54.FT.
LREF = 1295.3500 INCHES
BREF = 1295.3500 INCHES
SCALE = .0150 SCALE

976.0000 INCHES .0000 INCHES 400.0000 INCHES

5.607 5.00

AL PAR		8	E	3	£	8
-28	789	29861	44883	.00229	.00000	34547
28	138	29197	-,43542	.00163	00000	33170
27	2	27810	41947	.00129	00000	30455
26	2	26647	40892	.00109	00000	28126
252	29	25339	-,39322	60100	.00000	-,26747
23257	52	23935	38018	.00182	.00000	-,25759
228	17	23662	37118	.00198	.00000	-,25327
233	57	24138	36852	00000	00000	-,25639
235	58	24324	36525	.00213	00000	25897
236	9	24221	36238	76100.	.00000	-,25795
238	8	24618	35005	.00254	00000	25863
500	27	.00302	2900.	00006	00000	.00288

TABULATED SOURCE DATA, LARC 8FT667 (1A-41)	
CATE 12 JU. 74	

LRC 8 TPT 667 1A41 TIPIOL

(R88111) (29 JAN 74)

PARANETRIC DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2000 2000 2000 2000 SREF = 2690.0500 50.FT. LREF = 1290.3500 INCHES BREF = 1290.3500 INCHES SCALE = .5150 SCALE

REFERENCE DATA

ALPHA =

.000 RUDDER =

86.

56/ 0 RW/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

8	19322	19053	18791	18259	18059	17490	15965	16558	17137	19522	19397	.00251
£	00000	.00000	.0000	00000	.00000	.0000	01121	.0000	00000	.0000	00000	00051
Š	01067	01066	01043	01587	01062	51089	01093	01067	01069	01065	91064	.00001
£	38351	37319	-,35025	-,32045	-,29905	29514	29338	29885	31683	34558	35639	.00223
8	20249	19557	18602	17569	16915	15952	16041	17358	18427	20563	21284	.00063
દ	18838	18172	17438	16950	16613	15498	16158	15881	17941	25489	21223	92000
BETA	-9.893	-8.694	-6.618	-4.496	-2.208	052	2.123	4.359	6.527	8.828	9.836	CR JOIENT
MCH	29.	.	.603	. 6 03	609	.599	600	605	.599	.600	600	

RUN NO. 55/ 0 RWL = 1.89 GRADIENT INTERNAL = -5.00/ 5.00

CP620808195631922818502181691746177461913521551
CPS
.00126 00126 00177 00177 00177 00150 00125 00125 00125
CP3 40329 37649 35176 3170 30546 31345 31345 32201 34222 34222
CP221249195621956218711157111571115741726117261187002016922793
CP1 2054 16629 17572 16416 15245 15106 16627 20349 20349
BETA -10.687 -6.401 -4.297 -2.085 020 2.100 4.259 6.463 10.702 68ADIENT
38CH . 799 . 600 . 799 . 799 . 799 . 799 . 799

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7

LRC 8 TPT 667 1A41 T1P104

(Red111) (29 JAN 74)

8

RUDDER =

98

ALPHA

PARAMETRIC DATA

REFERENCE DATA

digit. 2690.0000 SQ.FT. 1290.3000 INCHES 1290.3500 INCHES .0150 SCALE

SECT :: LATF :: BREF :: SCALE ::

976.0000 INCHES .0000 INCHES 400.0000 INCHES

2	RUN NO. 54/ 0	, 0 RNL =	2.90	GRADIENT INTERVAL	#	-5.00/ 5.00	
	BETA	ક	2	E	£	£	£
906.	-10.837	24822	25337	41434	00000	00000	2516
						-	

-.2388 -.21470 -.20309 -.18953 -.18345 -.18870 -.24666 -.25829 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 -.00462 -.00484 -.00484 -.00484 -.00484 -.00462 -.00462 -.00462 -.00462 -.39269 -.36708 -.31043 -.31043 -.31366 -.32303 -.34079 -.35997 .21520 .19941 .19941 .16956 .17634 .18164 .1917 .21767 .22791 .23791 -.22965 -.19629 -.18696 -.16975 -.17519 -.19857 -.24240 -.26786 -6.526 -6.526 -2.386 -2.196 -.008 -.008 6.516 6.516 6.516 6.516 6.516 6.516

GRADIENT INTERWAL = -5.00/ 5.00 2.04 # **₹** 53/0 RUN NO.

	_	_	_	_	_	_				.0000026631 .0000026561 .00000
ž	00622	00688	00662	00629	00635	-,00593	DD63.a	006.29	00629	00629
£	50171	48620	46085	43205	40834	39129	40027	42250	-,42250	42250
8	33462	31750	29252	26685	24631	24668	24429	27395	29703	29703 29703 31945
દ	32871	31425	28882	26099	24104	-,23638	23353	27225	27225	2725 30022 32348
BETA	-10.608	-6.738	-6.573	-4.364	-2.201	008	2.183	4.363	4.363 6.581	4.363 6.581 8.768
Ş	976.	.981	.981	086	960	979	.979	980	286. 086.	86. 86. 6.

2.11 GRADIENT INTERVAL = -5.00/ 5.00 32/ D RN/L = 35 S

E CH	BETA	દ	8	£	3	£	9
1.201	-6.788	-,32327	32344	44940	.00311	00000	33798
1.201	-6.601	28620	29142	43038	.00283	00000	31220
1.201	-4.390	25500	26097	40816	.00273	.00000	28489
1.201	-2.231	23943	24165	-,38547	.00283	.00000	26377
1.201	200.	23367	23745	-,37823	.00285	.00000	25703
1.201	2.211	24538	24895	-,38256	.00301	.00000	24827
1.201	4.387	26187	25803	38650	.00286	.0000	25332
1.251	6.800	28697	28512	39866	.00304	.00000	27151
1.255	6.694	30793	29960	49826	.05283	.0000	28554
	GRADIENT	00099	00007	.00219	20000.	.00000	.00357

7 (14-41)
TABULATED SOURCE DATA, LARC 8FT667 (IA-41)
TABLLATED SOURCE
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CATE 12 JUL 74

DATA
REFERENCE

LEC & TPT 667 1A41 T1P1

INCHES INCHES INCHES
976.0000 .0000 400.0000
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SQ.FT. INCHES INCHES SCALE
2695.0908 1295.3002 1295.3009 0150
SAEF LREF BREF SCALE

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.000 RUDDER =

PARAMETRIC DATA

(R@8112) (29 JAN 74)

PAGE 81

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8.8
-5.00/
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INTERVAL
GRADIENT
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61/0
SUN NO.

CP3 CP4	_	_			_		_						gradient interwl = -5.00/ 5.00		_		_				17901 .00000	_	_	_	Ĭ	
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ಕ	12790	10988	09947	10079	09715	09041	09148	09423	09024	09253	10154	.00091	D RN/L =	5	15958	15091	14269	13385	-,12684	13359	12901	11343	11517	12842	14008	.00190
ACHIA	-10.315	-8.232	-6.143	-4.146	-2.087	027	2.086	4.129	6.120	8.194	10.238	GRADIENT	NO. 60/	AH 74	-10,193	-8.183	-6.155	4.067	-2.101	011	1.986	4.066	6.076	8,096	10.179	GRADIENT
MACH M	599	599	665	898	965	509	665	609	200	909	009		S.	2	8	100		8	8	900	79	662	900	7	8	

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	1.99	8	0000	2000	9000	0000	20000	0000	00000	00000	00000	00000	00000	2.05	8	00000	.00000	0000	00000		0000	0000		0000	00000	5000	, 00000 1
	O RIVL =	ક	20707	19209	17612	15835	16485	11886	12332	13772	15478	17016	.00568	O RIVL =	£	26329	23145	20777	21362	18408	15390	14772	15837	17263	18863	20798	.00718
		ALPHA	-10.250	-8.141	-6.186	7.11	-2.086	2.014	4.060	6.117	6.238	10.201	GRADIENT	28/	ALPHA	-10.312	-8.187	-6.203	4.137	-2.105	042	2.022	4.067	6.132	8.182	10.276	GRADIENT
SRET = 2690,0950 SQ.FT. XM LRET = 1290,3500 INCHES YM BRET = 1290,3950 INCHES ZM SCALE = .0150 SCALE	RU	₩.	669.	006*	GC6*	668*	006.	106.	868.	006*	006.	056*		RUN	MACH	086.	D86.	086.	086.	6/6*	979.	086.	6/6*	086.	979.		
	= 2695.0000 80.FT. XNRP = 976.0000 = 1295.3000 INCHES YNRP = .0000 = 1295.3000 INCHES ZNRP = 400.0000 E = .0150 SCALE	= 2690.0000 \$4.FT. XMRP = 976.0000 INCHES = 1290.3000 INCHES XMRP = .00000 INCHES = 1290.3000 INCHES XMRP = .400.0000 INCHES E = .0150 SCALE RUN NO. 59/ 0 RW/L = 1.99	= 2690.0050 \$Q.FT. XWRP = 976.0000 INCHES = 1290.3050 INCHES YWRP = .0000 INCHES = 1290.3050 INCHES ZWRP = 400.0050 INCHES E = .0155 \$CALE RUN NO. 59/ 0 RN/L = 1.99	= 2690.0050 \$Q.FT. XMRP = 976.0050 INCHES = 1290.3050 INCHES YMRP = .05050 INCHES = 1295.3050 INCHES ZMRP = 400.0050 INCHES E = .0155 \$CALE RUN NO. 59/ 0 RN/L = 1.99 MACH ALPHA CP1 CP2 .699 -10.25020707 .00000	= 2690.0050 \$Q.FT. NWRP = 976.0000 INCHES = 1290.3050 INCHES YWRP = .0000 INCHES = 1290.3050 INCHES ZWRP = 400.0000 INCHES E = .0155 \$CALE RUN NO. 59/ 0 RN/L = 1.99 MACH ALPHA CP1 CP2 .699 -10.25020707 .00000 .900 -0.14119209 .00000	= 2690.0050 \$Q.FT. NNRP = 976.0000 INCHES = 1290.3050 INCHES YMRP = .0000 INCHES = 1290.3050 INCHES ZMRP = 400.0000 INCHES E = .0155 \$CALE RUN NO. 59/ 0 RN/L = 1.99 MACH ALPHA CPI CPE .699 -10.25020707 .00000 .900 -6.18617612 .00000	= 2690.0050 \$Q.FT. NWRP = 976.0000 INCHES = 1290.3050 INCHES	= 2690.0950 \$Q.FT. NWRP = 976.0000 INCHES = 1290.3500 INCHES YWRP = .0000 INCHES = 1290.3500 INCHES ZWRP = 400.0000 INCHES E0155 \$CALE RUN NO. 59/ D RW/L = 1.99 MACH ALPHA CP1 CP2 -89910.25020707 .00000 -9006.14115209 .00000 -9006.14617612 .00000 -9006.14616435 .000000 -9006.14616435 .000000	= 2690.0500 59.FT. NWRP = 976.0000 INCHES = 1290.3500 INCHES	= 2690.0950 \$9.FT. NWRP = 976.0000 INCHES = 1290.3550 INCHES	= 2690.0950 \$Q.FT. NWRP = 976.0000 INCHES = 1290.3500 INCHES	= 2690.0950 9Q.FT. NWRP = 976.0000 INCHES = 1290.3500 INCHES	= 2690.0050 9Q.FT. NWRP = 976.0000 INCHES = 1290.3500 INCHES	= 2690.0950 59.FT. NWRP = 976.0000 INCHES = 1290.3509 INCHES	= 2690.0950 9Q.FT. NWRP = 976.0000 INCHES = 1290.3500 INCHES	= 2695.0565 84.FT. YMRP = 976.0000 INCHES = 1295.3550 INCHES	= 2695.0565 84.FT. YMRP = 976.0000 INCHES = 1295.3550 INCHES	= 2695.0565 84.FT. NWRP = 976.0050 INCHES = 1295.3550 INCHES	= 2695.0565 84.FT. YMRP = 976.0000 INCHES = 1295.3550 INCHES	= 2695.0565 84.FT. NWRP = 976.0000 INCHES = 1295.3550 INCHES	= 2695.0565 84.FT. NWRP = 976.0000 INCHES = 1295.3505 INCHES	= 2695.0565 84.FT. NURP = 976.0000 INCHES = 1295.3505 INCHES	= 2695.0565 84.FT. NWRP = 976.0000 INCHES = 1295.3505 INCHES	= 2695.0565 84.FT. NWRP = 975.0000 INCHES = 1295.3505 INCHES	= 1295.0550 1NCHES	= 1295.3550 INCHES	= 1295.0550 1NCHES

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1.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA 000.

(Rec112) (29 JAN 74)

PAGE

TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41)

CATE 12 JUL 74

TABILATED SOURCE DATA, LARC 8FT667 (114-41)	
DATE 12 JUL 74	

LRC 8 TPT 667 1A41 T1P1

PAGE 83

(R@8112) (29 JAN 74)

REFERÊNCE DATA

MAGP = 976,0000 INCHES YMGP = .0000 INCHES ZMGP = 400,0000 INCHES

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.000 RUDDER =

BETA =

PARAMETRIC DI JA

SHEF = 2690,0000 50,FT.

LREF = 1290,5000 INCHES

BREF = 1290,3000 INCHES

SCALE = .0150 SCALE

57/ 0 RN/L = 2.10 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

8	00000	00000	00000	00000	00000	.00000	00000	00000	00000	.00000	00000	00000
દ	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
ಕ	00000	.0000	00000	00000	00000	00000	.00000	00000	00000	00000	.00000	00000
E	28900	27526	26456	25228	24416	-,23208	-,22503	22899	23488	24127	25388	.00318
8	00000	00000	.00000	00000	00000	00000	.00000	.0000	00000	00000	.00500	00000
£	26720	24608	22729	20876	20286	18899	18085	18528	18871	19654	21170	.00334
\$ 5	-10.357	-6.283	-6.242	-4.174	-2.118	043	2.021	4.079	6.147	8.244	10.292	GRADIENT
MACH	1.201	1.201	1.202	1.200	1.200	1.200	1.255	1.200	1.200	1.199	1.200	

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TABULATED SCIRCE DATA, LARC 8FT.-667 (1A-41)

LRC 8 TPT 667 IAA1 TIP1

(Regiss) (29 JAN 74)

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.000 RUDDER =

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976.0000 INCHES .0000 INCHES 400.0000 INCHES SREF = 2624.0000 50.FT. LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0150 SCALE 66/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

8	.00000	00000	00000	00000	00000	00000	00000	00000	.00000	.00000	.0000	00000
£	00000	00000	00000	00000	.0000	00000	00000	.00000	.00000	00000	.0000	00000
3	.00000	00000	00000	00000	.00000	.00000	00000	00000	.00000	00000	00000	00000
E	20696	18347	16450	16435	15355	15501	15603	16804	1822D	19999	22054	00048
2	00000	00000	00000	.00000	00000	00000	00000	.00000	00000	00000	.00000	00000
5	11293	09590	06690	0.09070	08959	09072	10766	11751	11979	12796	13871	00347
BETA	-10.330	-8.251	-6.196	-4.136	-2.062	005	2.158	4.120	6.193	8.250	15.320	GRADIENT
	009											_

RUN NO. 65/0 RIVL = 1.89 GRADIENT INTERNAL = -5.00/ 5.00

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CPS .000000
CP4 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000
CP32401019579195791897317682192572116622932
.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000
CP1 15694 14105 12503 12503 13922 13922 13906 15411 17888 17888
BETA -10.253 -6.141 -4.095 -2.036 013 2.042 4.078 6.129 6.189 10.225 GRADIENT
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TABULATED SOURCE DATA, LARC 8FT667 (IA-41)
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		REFERENCE DATA	KTA							PARAMETRIC DATA	: DATA
SECT.	# # # #	SAEF = 2690.0000 SQ.FT. LREF = 1295.3000 INCHES BREF = 1295.3500 INCHES	20 Miles	# # #	= 976,0000 INCHES = 0000 INCHES = 400,0000 INCHES	222	OFES CHES CHES	ALPHA A	**	900	.000 RUDDER =

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ti .1	. 00000
NT INTERVAL	CP3 27411
GRADIEN	
2.98	.00000
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62/0	BETA -10.291
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8	.00000	.0000	00000	20000*	.0000	.00000	.00000	.00000	00000	00000	.0000	.00000
£	.0000	00000	. 20000	00000	00000	.00000	.00000	00000	00000	.00000	.00000	.00000
3	.00000	00000	00000	00000	00000	00000	00000	00000	.00000	.0000	00000	00000
E	27411	-,25522	23113	21127	19816	19758	20068	23950	23574	-,25468	27764	.0000
8	00000	.00000	00000	.60000	20000	00000	.09550	00000	.00000	00000	00000	00000
8	20864	19275	17407	15836	14788	14557	14860	15163	16900	18777	20645	.90062
BETA	-10.291	-6.236	-6.176	4.111	-2.057	014	2.549	4.114	6.172	8.214	10.301	GRADIENT
									669.			

MACH BETA CP1 CP3 CP3 CP4 CP5 CP6 -980 -10.363 27576 .00000 33197 .00000 <th>3</th> <th>ġ</th> <th>8/0</th> <th>RNY.</th> <th>2.05</th> <th>RADIENT INTERMAL</th> <th>RVAL = -5.00/</th> <th>20. 5.00</th> <th></th>	3	ġ	8/0	RNY.	2.05	RADIENT INTERMAL	RVAL = -5.00/	20. 5.00	
-8.28225277 .0000033197 .00000 .00000 .00000 .00000 .22277 .0000030965 .00000 .00000 .00000 .00000 .22277 .0000030965 .00000 .00000 .00000 .22271 .000002844 .00000 .00000 .00000 .226818154 .0000028180 .00000 .00000 .00000 .2269 .00000 .00000 .00000 .2269 .00000 .00000 .00000 .2269 .00000 .00000 .00000 .00000 .22259 .00000 .00000 .00000 .00000 .22259 .00000	₩.	BETA		£	2	E	3	£	9 9
-8.28225277 .0000030965 .00000 .00000 .00000 .00000 .22771 .0000026130 .00000 .00000 .00000 .22771 .0000026130 .00000 .00000 .00000 .22768 .00000 .00000 .00000 .00000 .22768 .00000 .00000 .00000 .22769 .00000 .00000 .00000 .22769 .00000 .00000 .00000 .22361 .00000 .00000 .00000 .00000 .22669 .22694 .00000 .00000 .00000 .00000 .22669 .22694 .00000 .0000	980	-15.36	_	27576	00000	33197	00000	.00000	20000.
-6.20922771 .0000026130 .00000 .00000 .00000 .2.06618134 .0000026130 .00000 .00000 .00000 .00000 .2.06618134 .0000028180 .00000 .00000 .00000 .2.06918578 .0000028172 .00000 .00000 .00000 4.1241867 .0000028594 .00000 .00000 .00000 .00000 .2.269 .0000028594 .00000 .00000 .00000 .00000 .2.2646 .000003810 .000000	.981	-8.28%	۰.	25277	00000	30965	00000	00000	.00000
-4.14319934 .0000026130 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .216951 .00000 .22694 .00000 .00000 .00000 .00000 .22694 .00000 .00000 .00000 .00000 .00000 .22694 .00000	586	6.20	_	2271	.00000	28444	00000	00000	00000
-2.06e18154 .0000023172 .00000 .00000 .00000 .00000 .00000 .00000 2.06916951 .0000023372 .00000 .00000 .00000 .00000 4.12418867 .000002594 .00000 .00000 .00000 6.18121269 .0000028477 .00000 .00000 .00000 10.34927539 .0000030810 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	086	4.14	_	19934	00000	26130	00000	.00000	.00000
2.06915578 .0000023372 .00000 .00000 4.12418867 .0000025801 .00000 .00000 6.18121269 .0000028477 .00000 .00000 8.2662446 .0000030810 .00000 .00000 10.34927539 .0000033022 .00000 .00000	086	-2.06		18154	00000	24180	.00000	00000	00000
2.66916951 .0000023601 .00000 .00000 4.12418867 .0000025594 .00000 .00000 6.18121269 .0000026477 .00000 .00000 8.2662446 .0000030810 .00000 .00000 10.34927539 .0000033022 .00000 .00000	086	G.		15578	00000	23372	.00000	.00000	00000
4.12418867 .0000025594 .00000 .00000 6.18121269 .0000028477 .00000 .00000 8.2662446 .0000030810 .00000 .00000 10.34927539 .0000033002 .00000 .00000 68ADIENT .00162 .00000 .00000 .00000	676	2.069		16951	00000	23801	.00000	00000	00000
6.18121269 .0000028477 .00000 .00000 6.2662446 .0000030810 .00000 .00000 10.34927539 .0000033002 .00000 .00000 68ADIENT .0G162 .00000 .00000 .00000	576	4.124		18867	00000	25594	00000	.00000	00000
6.2682446 .0000030810 .00000 .00000 10.34927539 .0000033002 .00000 .00000 68ADIENT .0G162 .00000 .00001 .00000	979	6.181		21269	00000	28477	.00000	00000	00000
10.34927539 .0500033002 .00000 .00000 .00000 .00000	979	8.268		24446	00000	30810	00000	00000	.00000
GRADIENT .00162 .00000 .00001 .00000 .00000	979	10.349		27539	00000	-,33002	.00000	00000	.00000
) }	GRADIEN		.05162	.00000	.00061	00000	00000	.00000

LEC 8 TPT 667 1A41 TIP1

(Re6113) (29 JAN 74)

PARAMETRIC DATA

86.

.000 RUDDER =

ALPHA =

976.0000 INCHES .000? INCHES 400.000U INCHES SACF = 2699.0009 94.FT. LACF = 1290.3000 INCHES BACF = 1290.3000 INCHES SCALE = .0150 SCALE

REFERENCE DATA

2	RUN NO.	62/0	RIVA. =	2.11	GRADIENT IN	INTERVAL = -5.	-5.00/ 5.00	
	į		į	8	E	Š	£	8
5	DEIA		2670		10001	00000	00000	90000
1.202	-101-		11,03.	2000	10000			
1.201	þ		-,24929	00000	C6082"-	2000	2000	
- 506	4		22471	00000	26241	00000	00000	20000
103.1			- 20643		24656	00000	00000	00000
1.202	•							
1.202	7		19512		11162*-	ממחה.	0000	
500	7		1 Ari64	00000	23025	2000	2000	
1.506			1000		0.3420	00000	00000	0000
1.202	2		10001			00000	UUUUU	
1.201	4		20137	cccc.	+2642	20000	oron.	
-	~		76786	00000	27294	8000	00000	
7000			06070	UUUUU	- 20A62	OUGUU.	00000	00000
1.25	6		7/707*-					מטטטיי
1.200	7.01		28196	0000	31342		2000	7000
	2010		NATION.	00000	00002	00000	00000	00000

CATE 12 .:. 74			TAB	ULATE	D SOURCE	BATA, LA	TABULATED SOURCE DATA, LARC 8FT667 (IA-41)	(14-41)			PAGE	3E 87	
			د	£ 8	LRC 8 TPT 667 1A41		T1P1 S1 P2			(R@6114)	4) (29 JAN 74	IN 74)	
	REFERENCE DATA	٤								PARAMETRIC DATA	: DATA		
SAEF = 2695,0000 LREF = 1295,3000 BREF = 1295,3050 SCALE = .0150	DD SA.FT. DD INCHES DD INCHES SD SCALE	MARIN TARRE	8 H H	976.0000 .5555 455.5555	976.0000 INCHES . 5555 INCHES 405.5555 INCHES				BETA ::	000*	RUDDER =	960.	
		RUN NO.		71/0	RN/L =	3.17	GRADIENT INTERVAL =		-5.00/ 5.00				
	7	*	AL PHA	U	5	8	E	3	E	9			
	*1	.599	-19.765	· •	26291	.00000	31783	29658	32412	00000			
	.599	66	-9.623	i	25778	.00000	- ,30989	27584	30910	00000			
	, en	66	-6.483	i	24939	.0000	-,30554	26287	29325	.00500			
	, eq	.599	-4.365	i	24469	.0205	30369	22842	27225	.00000			
	Ϋ́	8	-2.215	i	24932	55555	-,30407	19311	26077	.00000			
	Ą	66	576	1	25733	20000	30580	17868	24774	.00000			
	ξ	66	2.074	i	26305	20000	30663	18594	24582	.00000			
	. 599	66	4.232	1	26794	55555	-,30657	19936	25453	. 19599			
	209.	8	6.376	1	26517	20000	35408	23654	25670	. 05000			
	.599	66	8.503	1	27082	5555	31187	27457	27930	. 00000			
	.599		15.648	7	27388	9559	31871	35687	35561	,0000			
			GRADIENT	7	55281	.00000	-,0 0039	.00327	.00234	.00000			
		RUN NO.	3	0	RW. =	1.89	GRADIENT INTERVAL =	XVAL = -5.	-5.007 5.00				
			;	•	1	į	Į	į	**	*			
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		_	10.000		52563		33400	00000	- 27030	00000			
	2.		-6.376		-27320		32062	26137	- 26209	00000			
	52		4.282	-	27192	00000	31725	22520	24497	00000			
	28.		-2.178	1	27361	00000	-,31526	18914	22689	.0000			
	39.		074	1	28130	00000	31559	16710	21446	00000			
	.79	ድ	2.074	1	29194	00000	31803	17255	22155	.00000			
	.79	Ð	4.161	4.	29514	00000	31681	19586	22203	.00000			
	.79	ው	6.279	7.2	29969	.0000	31943	22837	23518	.00000			
	.799		8.374	7	30451	.0000	32672	26467	24851	.00000			
	.79		10.502		30923	90000	-,33133	29755	27687	.05550			
		3	GRADIENT	9.1	00397	.0000	00009	.00356	.00242	.00000			

DATE 12 JUL 74			TABL	LATE	SOURCE	DATA, L	tabulated soirce data, larc oft667 (1a-41)	(14-41)			PAGE	£ 88
			5	9	LRC 8 TPT 667 1A41		T1P151P2			(Re5114)	14) (29 JAN 74	1 24 N
REFERENCE DATA	2									PARAMETRIC DATA	C DATA	
SKEF = 2699,0090 SQ.FT. LREF = 1299,3000 INCHES BREF = 1299,3000 INCHES SCALE = .5130 SCALE	TORES OF STREET	# # #	976 202	.0000 .0000 .0000	976.0000 INCHES .6000 INCHES 400.0000 INCHES				BETA =	• 000	RWDER =	000•
	RUN NO.	ğ	. ' /69		RN/L =	1.99	GRADIENT INTERVAL =		-5.00/ 5.00			
MACH	青	3	ALPHA	J	£	8	S	Ē	£	8		
, ~	106.	5	-10.702	ï	.32322	00000	٠	32010	29409	00000		
•	106.	ę	-6.541	ï	31738	.0000		29980	27693	.0000		
~	.900	ģ	-6.465	7	31635	00000	35138	26681	25581	.00000		
*	.951	Ť	4.335	7	31739	.00000		22898	23572	.00000		
~	.951	ઌ૽	-2.256	7	32292	.0000		19166	21773	.00000		
•	ដូ	i	081	7	32339	.00000	33886	17975	21000	.00000		
•	.933	જં	2.066	7	32649	00000		17926	20976	.00000		
•	936	4	4.214	7	-,33828	20000	35296	20276	22557	.00000		
9.	920	6	6.326	ï	34477	.0000	-,35682	24035	23972	.00000		
5.	939	œ	8.431		34729	.0000	36198	27363	24859	.00500		
•••	106	10.585	285		35469	.0000	36920	30876	27781	.00000		
	•	GRADIENT	Ä	0.	00212	.00000	00128	.00302	.00132	.00000		
	3	Š	68/0		RNL =	2.04	GRADIENT INTERML =		-5.00/ 5.00			
č		2	•	Ş	_	8	Ę	ě	ğ	ă		
D86-	. 9	-10.823	. 2		.3689.	0000	40A7A	33740	30200			
981	=	4.654	3	ň	36365	00000	39902	31467	27580	00000		
186.	=	-6.503	8	'n	35595	00000	39089	28749	25247	00000		
196.	=	4.351	51	ų	34826	.0000	37797	25764	23147	00000		
196.	#	-2.217	17	ų,	34925	.0000	36921	22684	22756	.00000		
.981	=	080	8	36043	500	00000	37099	20650	25522	00000		
.981	=	2.086	98	36192	361	00000	37369	20899	22396	.00000		
.980	8	4.213		36312	312	0000	37403	24093	23868	.00000		
.981		6.364	3	Ę.	36960	00000	38554	27613	25566	00000		
096.		8.510	ᄗ	37714	717	.0000	39852	30397	27208	.00000		
976.		10.6	87	 8	38729	00000	40996	33031	30183	.00000		
	3	GRADIENT	¥	00198	198	00000	.00016	.00241	00050	.00000		

TABILATED SOURCE DATA, LARC 8FT667 (IA-41)	
CATE 12 JUL 74	

LEC 8 TPT 667 1A41 TIP151F2

(Ree114) (29 JAN 74)

REFERENCE CATA

976,5000 INCHES .0000 INCHES 400,0000 INCHES 2695.5050 54.FT. 1295.3555 INCHES 1295.3555 INCHES .5135 SCALE

.090 FULDER =

BETA

PARAMETRIC DATA

. 599

5	N NO. 67/ 5	S FINT =	2.12	RADIENT INTE	INTERMAL = -5.	-5.00/ 5.00	
MACH	ACTA	5	8	E	Š	£	£
1.255	-11.931	31295	00000	35507	38294	45251	Ġ
1.252	-8.811	35921	20000	34452	35934	-,37369	ğ
1.253	-6.624	31035	50000	-,34344	32529	33608	ij
1.252	-4.4:2	~.30510	25555	34104	30351	32264	ğ
1.252	-2.249	35914	ממממני.	33356	29223	32352	ģ
1.252	265	31254	accas.	33294	28871	32987	ង្គ
1.252	2.153	35642	22223.	-,33086	28935	32115	ដ
1.231	4.291	33894	50000.	32974	35956	32461	ë
1.251	6.443	35959	20000	33346	32274	32121	ਲ਼
1.251	8.665	31525	20000	33749	34518	-,33351	g
1.251	15.885	31114	00000	33841	36285	35431	8
	1. (******				•

8	.00000	.00000	.0000	20000	. 2555	. 60555	. 55550	.05550	. 20050	.00000	00000*	.00000
£	45251	-,37369	33608	32264	32352	-,32987	32115	32461	32121	-,33351	35431	00057
Š	38294	35934	32529	30351	-,29223	28871	28935	-,35956	32274	34518	36285	00039
E	35507	34452	34344	34154	33356	33294	-,33086	32374	-,33346	-,33749	-,33841	.00116
8	20000	20000	5000a*	20202	20000	60000	20000	.0000	20000	20000	00000	.00000
5	31295	35921	31035	~.30510	35914	31254	35842	35894	35959	31525	31114	95332
ALPHA	-11.031	-8.811	-6.624	-4.4:2	-2.249	592	2.103	4.291	6.443	8.66S	15.885	GRADIENT

CATE 12 JUL 74

LRC 8 TPT 667 1A41 TIP1S1P2

(R@8115) (29 JAN 74)

PARAMETRIC DATA

569

.090 RUDDER =

ALPHA =

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XORP = 976,0000 INCHES
LREF = 1290.3000 INCHES YMRP = .00000 INCHES
BREF = 1290.3000 INCHES ZORP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 76/ G RN/L = 3.18 GADIENT INTERVAL = -5.00/ 5.00

£	00000	20000	00000	00000	00000	.00000	.0999	.0000	.0000	.00000	.00000	.00000
£	29591	27930	26670	26315	26083	25071	24526	24699	25150	-,25843	25405	.00234
ŧ	27230	25369	22708	21121	19879	18178	16612	15909	15129	14567	13398	.05671
E	32583	31531	30899	30618	30311	30528	-,30407	-,30343	30694	31427	32474	.00023
8	00000	00000	00000	.0000	.0000	00000	00000	00000	00000	00000	00000	00000
£	26894	26945	27141	27596	26645	25935	25011	24872	25858	26935	27885	.00298
BETA	-10.230	-8.239	-6.971	-4.599	-1.885	600	2.062	4.113	6.161	8.250	10.233	GRADIENT
		.599										

RUN NO. 75/ 0 RN/L = 1.89 GRADIENT INTERML = -5.00/ 5.00

CP6 - 09999 - 09999 - 09999 - 09999 - 09999 - 09999 - 09999 - 09999 - 09999 - 09999 - 09999
CP5 - 28553 - 25558 - 22568 - 22568 - 22599 - 21559 - 21605 - 21605 - 22569 - 22599 - 22599 - 225937 - 20175 - 20175
CP4 -29092 -25418 -22846 -19225 -17065 -15719 -14501 -13673
CP3 32720 31610 31610 31667 3192 3192 31223 31223 31223
CP2 .09999 .09999 .09999 .09999 .09999 .09999 .09999 .09999 .09999
CP1353223053329867294632828127576275762754432754427596
BETA -10.210 -6.073 -6.073 -2.010 .099 2.038 4.239 6.152 8.148 10.247
MC+ 609 609 609 609 601 603 603 605 605 605 605 605 605 605 605



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: DATA, LARC BFT667 (1A-41,
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DATA,
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DATE 12 JUL 74
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LRC 8 TPT 667 1A41 TIP151P2

(Ree113) (29 JAN 74)

PAGE 91

900

.000 RUDDER =

ALPHA =

PARAMETRIC DATA

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2690.0000 34.FT. 1290.3000 INCHES 1290.3000 INCHES 20130 SCALE 74/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

8	00000	.00000	.00000	00000	.00000	. 00000	.00000	.00000	.00000	.00000	00000	. 2000	
£	28388	26194	24410	23223	22179	21206	20540	20605	21240	21872	21869	.00340	00' 2'00
3	29882	27487	24557	22193	20372	18400	16686	15423	14415	13856	12918	.00853	INTERVAL = -5.00/
£	36050	35209	34608	34425	34038	33834	33962	-,34226	34409	35036	35939	.00023	RADIENT INTE
8	00000	.00000	.00000	.00000	.00000	.00000	.00000	00000	00000	55555	00000	.00000	2.04 GR
£	-,35336	34894	34254	33744	32883	32468	32346	32778	32877	32752	32414	.00122	RNA ::
BETA	-10.303	-8.225	-6.035	-3.984	-1.958	052	2.063	4.101	6.195	8.254	10.256	GENDIENT	M). 737 G
# CH	668.	106.	10 6	126°	668.	500	556	206.	156.	689	156		2

8	00000	00000	.00000	00000	00000	.00000	.00000	00000	00000	00000	00000	00000
£	33808	31154	28110	25358	23633	22521	21678	21256	21341	20960	25642	.00496
Çe F	35776	-,32635	28011	24984	22761	20875	19129	17569	16571	15221	14383	.00954
E	39848	39483	38971	38309	37658	37060	37264	38541	38610	-,39395	40236	.00047
82	00000	.00000	00000	00000	00000	00000	00000	00000	00500	00000	00000	00000
ទ	39558	-,39333	38661	37536	36699	36193	36340	37133	37715	38349	38421	.00055
BETA	-10.299	-8.209	-6.143	7.003	-2.047	003	2.061	4.149	6.171	8.271	10.301	GRADIENT
	_			_						976		

LKC 0 TPT 667 1A41 T1P151P2

(R@6115) (29 JAN 74)

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RUDDER =

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PARAMETRIC DATA 900

REPERENCE DATA

976.0090 INCHES .5000 INCHES 400.0500 INCHES A ARCH SAEF = 2690.0000 SQ.FT. LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0150 SCALE

.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 CP5
-.41656
-.39698
-.39608
-.3403
-.31492
-.29758
-.27467 GRADIENT INTERWAL = -5.60/ 5.00 CP4 -.40528 -.35737 -.35737 -.35737 -.32058 -.32028 -.27301 -.25642 -.24148 -.24007 .00965 CP3
-.34220
-.3364
-.3363
-.33131
-.33131
-.32706
-.32843
-.33347
-.33938 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 **F 1** CPI
-.33662
-.33162
-.32157
-.31813
-.31813
-.31814
-.31814
-.31844
-.33844 0 /24 BETA -10.361 -6.323 -6.176 -4.136 -2.047 2.071 2.071 4.162 6.249 8.275 10.372 64ADIENT RUN NO. MCH 1.201 1.201 1.201 1.201 1.200 1.201 1.201 1.201 1.201 1.201 1.200 1.200

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CATE 12 JUL 74

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LRC 8 TPT 667 1A41	

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SES SES SES
976.0000 INCHES .0500 INCHES 400.0000 INCHES
405.
WARP VARA
FT. CPES AE
8228
SEEF = 2695.0090 SQ.FT. LEEF = 1295.3505 INCHES BREF = 1295.3505 INCHES SCALE = .5155 SCALE
5666
* 2 % 3

REFERENCE DATA

3	ĕ	81/ 0 RN/L =	3.17 6	RADIENT INTE	INTERVAL = -5.	-5.00/ 5.00	
H)	At Pra	દ	8	E	ક	£	9
200	-11.970	22554	23127	48714	01165	37049	2227
5	-9.716	22524	22935	46953	01107	-,35751	21987
9	-7.390	21645	22574	44885	01121	33738	21514
598	-5.170	21485	22370	-,43239	01134	31862	2128
9	-2.858	21282	22135	41789	01167	30380	2110
96	638	-,20855	21836	-,40895	01169	29435	21254
500	1.628	20291	21525	-,40256	01145	29736	2159
67.9	3.925	19686	21291	-,39978	51143	30562	2194
559	6.262	18366	25881	-,39099	01106	32613	2255
808	8.520	17568	20725	38431	01134	33952	23133
67.0	197.791	17634	25349	37821	01124	33935	23654
}	CRADIENT	.05235	.65125	.95282	,0000.	00039	05126

MCH ALPHA CP1 ;P2 .799 -11.5642510524679 .801 -9.3002415223769 .801 -4.8742226021963 .802 -2.6352146521286 .8025012080927848 .799 1.7452051320713 .805 4.0342016021572 .805 6.1301962120373	NUS.	2	0 /08	RN/L =	1.89	PRADIENT INTE	INTERVAL = -5.	-5.00/ 5.00	
-11.56425105 -5.30524122 -7.03523160 -4.87422260 -2.63521465 50120609 1.74520513 4.03420513 6.13019621		A PHA		ĕ	8	g	3	£	8
-5.30524152 -7.03523160 -2.63521465 50120609 1.74520513 4.03420160 6.13019621		-11.564		.25105	24679	48400	00277	34982	-,25091
-7.03523180 -4.87422260 -2.63521465 50120809 1.74520313 4.03420316 6.13019621		9		24152	23769	46356	00231	34170	23795
-4.87422260 -2.63521463 50120809 1.74520313 4.03420160 6.13019621		-7.035		.23180	22892	44687	00256	32820	22789
-2.63521465 50120609 1.74520513 4.03420160 6.13019621 6.13019621		-4.874		22260	21963	-,42685	00231	31625	21784
50120009 1.74520513 4.03420160 6.13019621 8.33919562		-2.635		.21465	21286	41083	00229	30824	-,20953
1.74520513 4.03420160 6.13019621 6.3391962		501		20809	27848	40392	05255	29917	20309
4.03420160 6.13019621 8.33919562		1.745		.25513	20713	39276	50278	30129	20329
6.13019621 6.33919562		4.034		20160	20572	39098	05281	31761	20472
8.339 - 19562		6.130		19621	20379	39228	00356	33341	25795
7000 - 0000		8.339		19562	20323	39118	00278	34211	21559
		10.510		25417	20955	39346	00229	-,33775	21242
GRADIENT .00232		RADIENT		.00232	.00151	.00404	00057	71000.	.00145

2	~ ~ ~	A	######################################	콯	_ ୬ ପ୍ରତ୍ରଶ୍ର ପ୍ରସ୍ତ	
REPERENCE CATA	SQ.FT. INCHES INCHES SCALE		#5# 1006 1		980. 993. 993. 993. 993. 993. 993.	
EFE.	2696.0000 1295.3000 1295.3000 5150					
	SECT :: DRECT :: SCALE ::					

GRADIENT INTERWAL = -5.00/ 5.00

2.03

RING =

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5.000 RUDDER

BETA

976.0000 INCHES .0000 INCHES 400.0000 INCHES

1.99 GRADIENT INTERWAL = -5.00/ 5.00

RUN NO. 79/ 0 RN/L =

.29637 -.29153 -.29545 -.27230 -.25503 -.25196 -.25181 -.25181 -.25181 -.25181 -.25181 -.25181

CP5
-.35227
-.3907
-.3260
-.3266
-.3153
-.3523
-.35637
-.3638
-.00192

CP4 -.00532 -.00534 -.00574 -.00573 -.00553 -.00574 -.00574 -.00574

CP3
-.49813
-.44991
-.44991
-.42942
-.41596
-.41596
-.41109
-.41280

.29329 -.29117 -.28214 -.26717 -.2527 -.24455 -.24428 -.25381 -.25381 -.25381

CP1
-.29423
-.29461
-.28541
-.27085
-.25140
-.24224
-.25237
-.25310
-.0118

ALPNA -11.806 -9.505 -7.254 -5.013 -2.747 -514 1.757 1.954 6.212 8.457 10.672 66AGIENT

CP6
-.43871
-.40717
-.38631
-.33897
-.33897
-.33897
-.3465
-.34560
-.34315

CP5
--40164
--4017
--39598
--39405
--42580
--42580
--47294
--4963

CP4
-.00682
-.00742
-.00734
-.00734
-.00734
-.00734
-.00735
-.00735
-.00735

CP3
--54950
--52927
--51494
--49250
--49331
--49312
--49332
--49332
--49333

CP2 -.39528 -.36024 -.35241 -.33241 -.33296 -.33302 -.34284 -.34296 -.34296 -.34296

CP1
-.36010
-.37438
-.35539
-.34024
-.34023
-.34017
-.34073
-.34161
-.34073

ALPHA -12.251 -9.805 -7.473 -5.219 -2.874 -626 1.677 3.919 6.220 8.460 10.702 6RADIENÍ

PARANETRIC DATA (Re6116)

(22 NAL 23)

TABILATED SOURCE DATA, LARC 8FT.-667 (IA-41)

DATE 12 JUL 74

LRC 6 TPT 667 1A41 T1P151P201



PAGE 95	(RG6116) (29 JAN 74)
tabulated source data, larc 8ft667 (1A-41)	1 0. 2 TOT KKT 1141 TIBI KIP201
CATE 12 JUL 74 TABULATE	

PARAMETRIC DATA

8

5.000 RUDDER =

BETA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 11 d3842 2748.0 11 REFERENCE DATA SREF = 2693.0000 50.FT.
LREF = 1290.3000 INCHES
BREF = 1290.3000 INCHES
SCALE = .0150 SCALE

77/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

•							
3	V 6014	ē	8	8	7	£	8
5		30762	11700	74847	11000	36677	36668
102.1	-10.820	- 22400	90700	***			
100	-10.161	-,33251	-,33520	45042	06100	36553	36199
101			4000	12721	COSSO	15094	34193
1.201	-7.799	*******	- 3203	*3)C**	03300		-
***	CP7 3"	36505	3:1344	42487	20206	35049	31824
109.1			90030	71017	60.00	£744k	- 29A71
1.201	-3.052	-,69461	C3135	-1711-	30100		
	Rof	- PARAR	28631	-,40309	.00176	33766	28252
1.501	200				60.00	36748	1300C
1.201	1.621	28970	-,28850	40200	, nni 8,	CT/00°-	20000
	1 007	20276	20441	Arin12	.00265	-,38809	28080
1.201	700.0	10030	******	1			
100	6.277	28817	28856	39122	.00223	40200	28424
			29000	30436	7:000	40760	28371
1.201	8.635	28745	70007		11001		200
1 201	17.896	29622	-,29866	37272	,00208	40777	29376
		6	Coucu	27 + 100	AUUUU	- DU774	5225
	COACIENT		0000	27775			-

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(Res117) (29 JAN 74)

PARAMETRIC DATA

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REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2000 2000 2000 2000 SHEF = 2690,0000 SQ.FT.

LREF = 1290,3000 INCHES

BREF = 1290,3000 INCHES

SCALE = .0150 SCALE

RUN NO. 86/ 0 RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00

3	AI PHA	8	8	8	3	8	98
9	-11.964	24816	25040	-,49515	01104	37448	23707
609	-9.450	24747	24876	47545	01141	36040	23428
.599	-7.210	24752	24805	45477	01131	33871	23218
609	-4.971	24616	24633	43786	01106	32149	23068
009	-2.648	24395	24435	42266	01087	30536	22891
8	408	24150	24425	41599	01124	29692	22977
.599	1.892	23735	24250	40869	01110	29993	23088
909	4.124	23293	24007	40307	01124	30897	23443
.599	6.359	21745	23430	39862	01126	33072	24270
.599	8.711	20489	22680	38860	01129	34165	24425
.599	10.960	20284	22574	38327	01106	34287	24646
	GRADIENT	.00145	.00063	.00368	-,00003	.00135	00041

	8	25956	25251	24469	23694	-,22933	22404	-,22167	22426	22383	22312	22458	.00151
-5.00/ 5.00	£	35440	34489	33121	31777	30705	29828	30212	32021	33819	34113	33946	.00002
INTERVAL = -5.	g.	00200	90257	00203	00175	00199	00201	00201	00173	00200	00204	00174	00000
RADIENT INTE	£	49246	47383	45566	43559	41837	41375	40029	40181	40252	39911	40043	.00390
1.89	8	26141	25615	24885	24057	23426	23180	22890	22736	22331	22028	-,22639	.00145
S RN/L =	દ	26725	26215	25419	24550	23907	23498	23204	22967	22265	21904	22526	.00176
NO. 85/ 0	ALPHA	-11.393	-9.070	-6.902	4.723	-2.466	260	1.893	4.093	6.353	8.541	10.756	GRADIENT
AU.	#CH	.799	.601	000	.799	.798	.799	.799	.798	.799	308.	.799	

(14-41)
8FT667
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DATA
SOURCE
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CATE 12 JUL 74

LRC 8 TPT 567 1A41 TIP151P201

(RB8117) (29 JAN 74)

PARAMETRIC DATA

5.000

BETA

PAGE 97

976.0000 INCHES .0000 INCHES 400.0000 INCHES REFERENCE DATA = 2690.0000 50.FT. = 1290.3000 INCHES = 1290.3000 INCHES = .0150 SCALE

SHEF :: LREF :: BREF :: SKALE ::

= -5.00/ 5.00

25	RUN NO.	2 0	. 788 ".	8: ::	GRADIENT INIE	INTERVAL = -5.	nn•e /nn•e-	
į	2	1	ē	8	8	ž	£	8
S E	•	5	•			9000	26/20	4110
6	-11	959	31233	- 30993	- NIC	*2cm*-	h > + > + > + = + = + = + = + = + = + = +	
	2 2 63	200	30202	41019	05271	0507	34141	3123
200	ŗ	376				00100	ACOURT -	1073
CUG	-1-	200	30404	30180	46447	£2000-	-30004	
			20118	2000	A15214	00529	32399	2990
250.	İ	250	201430	1177			2000	2000
150	9	553	28045	27886	43882	YOCOU	31634	7067
	ì		97404	27212	1868Y-	-,00529	31601	2875
3	ť	×	****	177.75	*****		4500	0000
	*	926	26793	26731	42553	62CDO:-	- 3203	A103*+
	•		9776	27200	41733	-, 10530	33830	2831
569	*	1	1000	*****	20.11			3540
5	Ġ	123	26036	26230	42144	ucou	30063	
3	•		97076	27860	41598	-,00529	36057	2801
668	20	į	• (2/3/0	606134	200710		0000	SORT
908	10,	3	25658	25950	41957	70c00	30120	2631
			0000	Ancin	99710	-,00001	00136	.0018
		2	1	× 1111	,,,,,,			

20.0									.36054				
5.00.5	CFS		₹	40	£3	.39	39	3	44967	74	48	49	8.
INTERWIL :: -	3	00666	00678	00621	00678	00674	00657	00642	00659	00675	00666	00665	.00003
GRADIENT IN	E	55376	53614	52250	50935	50479	50322	50637	50140	49785	49845	50061	.00063
2.03	8	41048	-,39775	38689	-,37294	36935	36421	-,36060	35739	36453	36045	-,35396	.00175
D REV. =	8	39782	38838	36368	3776A	3666	-36549	36394	35975	-36624	36166	35462	.00147
NO. 83/ 0	AHQ IA	4. 02.	6 654	7.206	7	0 663	404	200	7.00.7	S. ARB		10.057	GRADIENT
N.	7		n e	106.	i e	9	e e e	106.	i S	i e		,	e e

LRC 8 TPT 667 1A41 T1P151P201

(R@6117) (29 JAN 74)

PARAMETRIC DATA

5.000

BETA

REFERENCE DATA

SAEF = 2699.0000 SQ.FT. XMRP = 976.0000 INCHES LREF = 1290.3000 INCHES XMRP = .00000 INCHES SCALE = .0150 SCALE RUN NO. 82/ D RN/L = 2.11 GRADIENT INTERWL = -5.00/ 5.00

!							
Ş	AI PHA	5	8	g	\$	£	Š
5	-10,010	33728	34080	45388	.00258	37000	36924
5	979	33312	33525	44780	.00260	36670	35895
2	-7.557	32144	32051	43341	.00206	35808	33491
Š	-5.214	31046	-,30753	42509	.00225	35000	31630
5	2.832	19005	29797	41393	.00226	33634	30237
Š	7.469	-29868	29542	40595	.00226	34019	28961
5	1.915	30280	30074	40727	.00213	37806	29000
100	74.1	3000	29882	40459	00200	39336	28919
5	6.43A	30434	30188	39664	.00275	40350	29242
	8.748	30619	30388	-,38605	.00278	41280	29387
	11.084	31721	31471	37543	.00251	40905	-,30504
	CEANTENT	L CONTIN	AF1010.	51100	00003	-,00898	.00169

(13 MAY 74) (Bee001) 86

PARAMETRIC DATA LRC & TPT 667 1AA1 TIP1S1PZOAFRI

.000 RUDDER = \$8 BETA 976.0000 INCHES .0000 INCHES 400.0000 INCHES REFERENCE DATA SREF = 2690.0000 50.FT.

LREF = 1290.3000 INCHES

BREF = 1290.3000 INCHES

SCALE = .0150 SCALE

CART .20046 .19433 .18578 .1568 .16991 .16452 .15524 .155678 .155678 .15643 .15567 .15 CAFT .07061 .07926 .08747 .09853 .10042 .09833 .09836 .06984 .05962 8.8 RN/L = 3.19 GRADIENT INTERVAL = -5.00/ 27127 27127 27128 27128 27128 27138 26494 26494 26494 263934 263934 263934 263934 CA :27085 :2728 :2728 :2728 :2728 :2728 :26770 :26410 :25614 :24834 :22453 :22453 :21403 CLM .32256 .26143 .20582 .15704 .07415 .07415 .01328 -.05633 -.10401 -.10401 CN -.79257 -.64393 -.59176 -.37162 -.12543 -.02132 .22173 .22173 .22174 .35141 .4825 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 9/ 0 ALPHA -11.936 -9.668 -7.369 -7.369 -2.819 -6.01 1.661 1.662 9.514 10.632 6640 10.632 RUN 10.

CABT 119737 119088 118285 117322 116718 115917 115609 11586 115931 116420 116420 .10096 .10096 .10050 .10751 .11346 .11753 .11750 .11750 .10095 .09936 .09936 CAT ...29835 ...29835 ...29836 ...29816 ...29816 ...28187 ...26408 ...26408 ...26838 ...26838 ...26837 ...26837 ...26837 ...26837 ...26837 ...26837 ...2683 CA 29821 29821 29511 28976 28632 27589 27589 26674 26531 25530 26533 26533 26533 CLM .30998 .24968 .19472 .14314 .09442 .00493 ..00717 ...14109 ...14109 ...14109 ...14109 ...16077 ... CN -.76262 -.61469 -.47513 -.34364 -.10297 -.10297 -.10319 -.10397 -.10319 -.10316 -.1 20000. 20000. 20000. 20000. 20000. 20000. 20000. 20000. 20000. 20000. 20000. ALPA -11.449 -9.216 -6.950 -4.828 -2.573 -.453 1.740 3.940 6.154 10.557 660DENT

CATE 12 JUL 74

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-5.00/

GRADIENT INTERVAL

RV. = 1.90

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RUN NO.

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Cate 12 JU 74		TABULATED	tabilated source data, larc oft667 (14-41)	, LARC BFT	-667 (IA-41)				PAGE 100
		LR 8 1	LRC 8 TPT 667 1A41	Tipi sipzoifri	Ę.			(BQ6001) (13 MAY 74	47 74 (27 YA
REFERENCE DATA	MTA						PAR	PARAMETRIC DATA	
SREF = 2890,0000 SQ.FT. LREF = 1290,3000 INCHES BREF = 1290,3500 INCHES SCALE = .0150 SCALE	2000 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	976.0000 .0000 400.0000	INCHES INCHES INCHES			BETA	H <	.000 RUDDER =	000.
	RUN ND.	3/0	RWL = 1.99		GRADIENT INTERVAL =	-5.00/	9.00		
Z VA	A PRA	BETA	8	ā	5	2	CAFT	CABT	
668	-11.762	00000	81818	.33432	.32742	.32741	.12013	.20729	
106	677.6-	00000	65062	.26454	.32276	.32273	.12795	.19478	
86	-7.209	00000	48897	.19477	.31933	.31942	.13183	.18759	
668.	-4.936	00000	33386	.12993	.31537	.3155/	.13303	.18254	
006.	-2.704	00000	19440	.07390	.31012	.31041	.13605	.17436	
2993	455	00000	05752	.01847	30254	30308	.13906	.16402	
56.	1.755	00000	.07572	04058	.29577	.29633	.13779	.15854	
660	3.970	.00000	.20215	09245	.29423	.29477	.13474	.16003	
668*	6.217	00000	.31837	12369	.29763	.29789	.13150	.16645	
669.	8.440	00000	.45037	17822	.29860	.29873	.12482	.17392	
869	10.644	00000	.56005	21580	.29871	.29890	.11957	.17933	
	GRADIENT	00000	.06027	02511	00254	00250	.00023	00273	
	RUN KÖ.	2/0	RVL = 2.05	GRADIENT	GRADIENT INTERVAL =	-5.00/ 5	9.00		
2	A.M.	BETA	3	ğ	5	2	CAFT	CABT	
186	-12.079	0000	87930	.35217	.41063	.41145	.16559	.24586	
676.	17.6	00000	69123	.27475	.40557	.40570	.17257	.23312	
	-7.429	00000	51911	.20554	.40593	.40595	.17892	.22703	
	-5.143	00000	36586	.14704	.40277	.40280	.18219	.22061	
	-2.801	00000	22028	.09338	.39468	.39489	.18384	.21105	
	558	00000	09195	.05026	.39425	.39492	.18364	.21129	
676.	1.689	00000	.05061	00667	.39395	.39479	.18185	.21295	
	3.925	00000	.20255	08424	.39557	.39646	18021	.21625	
.978	6.219	00000	.34456	13879	.39109	.39204	.17386	.21818	
	8.477	00000	.47092	18089	.39288	.39430	.16851	.22578	
	10.713	00000	. 59379	23290	.38635	.38773	.16145	.22628	
	GRADIENT	.00000	.06292	02630	.00011	.00020	00057	.0007	

-41)	
TABULATED SOURCE DATA, LARC 8FT667 (1A-41)	
D SOURCE DATA, L	
TABULATE	
CATE 12 JUL 74	

	(Bascol) (13 MAY 74	PARAMETRIC DATA
	TIPI SI PROLFRI	
	LRC 6 TPT 667 IA41 TIPISIPROFFRI	
: =		REFERENCE DATA

REFERENCE DATA

.000 RUDDER = .21316 .21316 .21316 .19962 .19962 .19852 .1887 .18867 .18867 .18056 .18258 .180051	
5.00 5.00 (AFT .24929 .25929 .25920 .25621 .25521 .25552 .25552 .25551 .25551 .25551 .25551 .25551	
-5.00/ 5 -5.00/ 5 -46247 -46246 -45349 -44347 -43344 -43344 -43344 -4789	
CA .46219 .46008 .45542 .45542 .44628 .44628 .44623 .44623 .44624 .41714	
GRADIENT CLM .36131 .26983 .20264 .14392 .08336 1821 1821 1822	
INCHES INCHES INCHES INCHES INCHES CN 92734 57306 37307 21231 06655 07707 21231 06655 3736 3736 3736 3736 3736 3736 3736 3736 3736 3737 06655 07707 06655 07707 07707 07707 07707 07707 07707 07707 06655 07707 	
976.0000 -0000 1/ 0 1 8ETA -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000 -00000	
ALPHA 12.322 -10.084 -7.685 -5.304 -2.956 -6.239 -6.239 -10.084 -1.685 -6.239 -	
MEF = 1290.0000 50.FT. LEEF = 1290.3000 INCHES SCALE = .0150 SCALE 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201 1.201	

XAC.A. .364022 .394396 .416660 .417948 .599 .600 .699 .981

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CATE 12 JUL 74	NE 72			TABULATE	SOURCE D	ATA, LARC	TABULATED SOURCE DATA, LARC OFT,-667 (IA-41)	11-41				Ž
				רא	LRC 6 TPT 667 1A41		tipi siproafri				(86002)	(13 H
	ACTER	REFERENCE DATA	ATA							PAR	PARAMETRIC DATA	*
SCALE ::	2699.0000 34.FT. 1290.3000 INCHES 1290.3000 INCHES .5150 SCALE	SA.FT. INCHES INCHES SCALE	2000 2000 2000 1100 1100 1100 1100 1100	976.0000 INCHES .0000 INCHES 400.0000 INCHES	INCHES INCHES INCHES				₹	ALPHA =	.000 RU	RUDDER =
			RUN NO.	10/ 0	RIV.	3.20 GRA	GRADIENT INTERVAL =		-5.00/	5.00		
	*	5	BEYA	5	2	ð			2	C.F.	CABT	
		909	-10.939	.42861	1763	_			.27776	.08472	19304	
	•	100	6.733	.34768	14863	_			.27677	.08959	.18718	
		8	-6.555	.26499	1160				27404	.09292	.18112	
	•	S	698.7	.17913	08035	5 .02715	15 .27113		.27161	.09655	.17506	
	•	623	-2.190	.09265	D4182				.26854	.09980	.16875	
	•	8	029	.00829	00310				.26546	.10154	.16392	
	•	509.	2.148	07459	.03461				.26744	.10596	.16149	
	•	599	4.321	16011	.07418				.27140	.11046	.16094	
	•		6.507	24653	.11105				.27511	.11284	.16226	
	•		8.705	33699	.1477				.27745	.11269	.16476	
	•	8	10.901	42050	.17854				.27891	.11059	.16832	
			GRADIENT	03892	.01775	00566	•	•	.00007	.00156	-,00163	
			RUN NO.	0 /6	RIVL = 1	1.91 GRAD	GRADIENT INTERVAL =		-5.00/	5.00		
	1	Ž	BF TA	٤	Č	8			בא	בא	CABT	
	•	8	-10.717	.45425	19543	.06546	920056		30061	10692	.19369	
	•	8	-8.555	.36718	16354				.29794	.11066	.18728	
	•	900	-6.414	.28318	13057				.29248	.11283	.17965	
	•	96.	-4.281	.19298	09212				.28637	.11475	.17161	
	•	799	-2.148	.10178	04879	_			.28176	11604	.16572	
	•	939	029	.01301	00623				.27724	.11782	.15942	
	•	.7 86.	2.112	07807	.03796				.28037	.12261	.15777	
	•	799	4.246	17121	.08309				.28671	.12703	.15968	
	•	799	6.385	26419	.12599				.29279	.13170	.16109	
	•	.799	8.518	-,35006	16000				29741	.13338	.16403	
	•		10.685	44453	.19742	06217			.29962	.13168	.16795	
		•	RADIENT	04261	.02051		•		.00003	.00146	00149	

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PAGE 102 (13 MAY 74)

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TABULATED SOURCE DATA, LARC OFT667 (1A-41)
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(B96002) (13 MAY 74)

PARAMETRIC DATA

ALPHA =

.000 RUDDER =

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TABULATED SOURCE DATA, LARC OFT667 (I)	LRC 8 TPT 667 IAA1 TIPISIP201FRI		
DATA	Ī		
SOURCE	7 667 I	976.0000 INCHES .0000 INCHES 400.0000 INCHES	
ATED	*	976.000 .000 100.000	
TABLE	7	400	

		TA XOREP YMEP ZMEP	
		REFERENCE DATA 2690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES	
			2
2		E ស្ត្រីស្ត្រី ទី១៨	5
뒥		5 2 2 2	
21		FF 69 16 (14
DATE 12 JUL 74		845 645 645	X ALE

	RUN NO.	0 /9	RN/L = 2	2.11 GRADIENT	INTERVAL =	-5.00/	5.0 0	
2	B 6.14	ځ	2	ē	5	5	CAFT	CABT
	4 4	70000	FORD	Dead	14537	46374	.25422	200952
1.212	240.0	3		03600				
200	-6.67e	30743	13458	.05496	.46108	.46110	.25627	20463
		20002	COCO	13786	45353	.45357	.25354	.20003
32.1		*****						
196	22.230	11619	05203	.02001	.44525	.44546	.25215	.19531
			F0700 -	00048	72011	.44335	.25513	18822
1:19	00	•1110		1				
- 200	2,176	08988	.04533	01492	.44383	.44396	.26174	.18222
		1000	00170	C1620	45108	45089	27076	.18013
1.25	4.36.	-16914	0.760	1	2			
• 253	6.615	28783	13155	10670	.45658	.45640	.27637	.18003
7070						*****	01160	10176
1.25	8.857	38824	.16726	06437	5000	1000	300131	
		0000	40000	0000	15071	AFRE	27044	1 2068
1.199	11:14	49048	cyris.	800/O'-			•	
	COAPTENT	- 04519	1751	-,00795	6Z000°-	00031	66100	00230

YACAL	.456061	.481345	.516487	.515005	.474502
W.C.	9.	.79	996	.961	1.202

CATE 12 JUL 74	14 Tr		TABULATE	D SOURCE	DATA, L	ARC OFT	TABULATED SOURCE DATA, LARC 8FT667 (IA-41)	_			PAGE	6E 16S	55
			. 8 JET	LRC 6 TPT 667 1441		T1P1 51P201				(898003)	1) (13 HAY 74	14 74	~
	REFERENCE BATA	ATA							PAR	PARAMETRIC DATA	DATA		
SAEF :: LREF :: BREF :: SCALE ::	2690.0050 58.FT. 1290.3050 INCHES 1290.3550 INCHES	: data	976,0000 .0700 490,000	976.0000 INCHES .0700 INCHES 400.0500 INCHES				₹	ALPIN =	000	RUDDER =	.000	8
		RUN NO.	15/ 0	RIVL =	3.19	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00				
	₹0	BETA	5	Z.	J	ĕ	5	5	CAFT	CABT			
	965	-10.743	,41353	16766		.05886	.27287	.27376	.08351	.19025	80 80 80 80 80 80 80 80 80 80 80 80 80 8		
	.599	-6.711	.34151	1450	_	05069	.27120	.27182	.08644	.18537	37		
	365	-6.479	.26084	11368		. 03987	.26834	.26886	.08850	.18037	37		
	965.	-4.382	.17545	07739		02692	.26660	.26725	.09645	.17080	8		
	565.	-2.153	.08842	53886		01310	.26442	.26490	.09984	.165	90		
	565.	.084	.00667	00217		.00133	.26015	.26110	.10182	.15929	63		
	\$65.	2.124	97852	.03684		01042	.26188	.26301	.10808	.154	33		
	. 598	4.375	16599	.07576		02386	.26535	.26614	.11158	.15456	36		
	.595	6.540	24815	.15977		03610	.26747	.26791	.11140	.15652	25		
	966.	8.718	33.W8	.14460		04792	.26936	.26948	.10954	15994	z		
	. 595	10.670	412:82	17294		05738	27175.	.27170	.10831	.163	9		
		GRADIENT	03089	.01752	·	•	00024	00019	.00176	00196	9		
		RUN NO.	14/ ==	BKL = 1	1.91	GRADIENT 1	GRADIENT INTERVAL =	-5.00/	5.00				
	Ö	BETA	ځ	3	7	ē	3	3	S.F.	CABT			
	ž.	-10.731	44489	18960	_	36413	.29377	.29413	.10002	.19412	e,		
	1 6.	-6.567	.36240	15978		.05353	.29118	.29154	.10369	.18785	5		
	.795	-6.396	.27878	12808			.28696	.28729	.10608	.10120	9		
	Ž.	-4.308	.19222	09164			.28081	.28108	.10670	.17238	80		
	¥.	-2.144	.10037	-,04832			.27629	.27661	.11162	.16479	g.		
	Ž.	025	.01013	00487			.27149	.27239	.11655	.15584	4		
	794	2.118	08346	.04097	•		.27389	.27469	.12257	.15213	m		
	.795	4.245	17575	.08547		02543	.27794	.27811	.12532	.15279	ø		
	194.	6.365	26493	.12562	·	03894	.28250	.282.40	.12771	.15470	0		
	194.	6.531	35150	.15866	•		.28726	.28714	.12897	.15618	80		
	.793	10.643	43628	.19133	•		.29073	.29054	.12748	.16306	9		
	-	GRADIENT	04306	.02076		00644	00038	00037	.00206	00243	m		

CATE 12 JU	74 74		TABULATED	SOURCE DATA	TABILATED SOURCE DATA, LARC 8FT667 (14-41)	667 (IA-41)			PAG	PAGE 106
			LK 8 T	LRC 8 TPT 667 1A41	11 P1 51 P204				(Bes003) (13 MAY 74	17 74
	REFERENCE DATA	TA T						PARA	PARAMETRIC DATA	
SAD LACT BACT	2690.0000 59.FT. 1295.3050 1NCHES 1295.3050 1NCHES	:: db0.	976.0000 INCHES .0000 INCHES 400.0000 INCHES	INCHES INCHES INCHES			ALPIA	# ≨	.000 RUDDER =	0.
		RUN NO.	13/ 0 R	RN/L = 2.01		GRADIENT INTERVAL =	-5.00/	8.00		
	į		2	3	ē	ð	2	133	CABT	
	10 0	-10.776	48724	21819	67170.	.33155	.33196	.12239	.20957	
	76 9	-6.607	.39584	18446	.06002	.32651	.32692	.12481	.2021	
	769.	-6.470	.30681	14867	.04775	.31885	1816.	12044	18134	
	768.	4.347	21476	19856	11450	30333	30343	13044	1750	
	969.	-2.16/	11424	-, 03662	2000	30007	3009	.13732	.16367	
	160	Chi.	-,0944	.04963	01301	.30389	30444	.14178	.16267	
	100	4.349	20134	.10415	02962	.30758	30745	.14420	.16326	
	693	6.545	29770	.14774	04406	.31528	25 E	.14915	.16589	
	669.	8.654	39151	.18765	05762	.32328	.32297	.15115	17182	
	160.	10.859	-,48463	.22157	06883	33030	33014	19161.	.1783	
		GRADIENT	04794	.02458	00730	-,00026	00026	.00188	-,00214	
		RUN NO.	12/ 0 R	RVL = 2.05		GRADIENT INTERVAL =	-5.00/	5.00		
	i	1200	2	3	é	ð	2	r ₂	CABT	
		11 017	. 52.840	23538	.08665	.42691	.42716	1,1039	.25676	
	96.	-8.7AD	42182	19552	.07157	.42387	.42411	.17289	.25122	
	186	-6.596	.32229	15552	.05652	.41472	45.50	.17361	.24143	
	086	-4.396	.22140	-,10983	10660.	.40508	.40528	.17447	.23061	
	D86°	-2.212	.11604	05769	.02033	.39863	29903	.17650	6222	
	976.	030	97700.	00191	.00210	39506	.39620	1,820	21.00	
	976.	2.128	1000	.05458	00010.	.29703	40200	19157	21043	
		4.347	17007	15372	05113	.41179	.41156	.19890	.21266	
	6,6°	8.710	40875	19380	06636	.41661	.41633	.19945	.21688	
		10.931	51271	.23594	08092	4202 9	.41992	19891	22101	
	•	GRADIENT	04927	.02513	Zc800°-	*• UDD3*	•:000	60300	*******	
		RUN NO.	11/0 R	RVL = 2.11		GRADIENT 1:TERVAL =	-5.00/	5.00		
	1	BETA	ځ	2	ਵੱ	5	2	CFT	CABT	
	500.1	-6.922	.39109	15766	.06755	.45916	.45919	.25018	.20901	
	1.201	-6.681	20862	-,12691	.05347	.45465	.45474	.25060	.20414	
	102-1	-4.437	.20069	08958	.03650	.44784	.44817	78672	1981.	
	102.1	-2.233	.10264	04600	.01867	.44177	62277	24/0/	10221	
	102-1	030	.00741	00215	20200	.44011	62144	95559	18461	
	1.201	2.167	08846	.04382	01443	20004.	4430	26445	.17864	
	1.201	4.376	18498	08700	05140	44360	44783	26975	17638	
	1.200	6.657	Z8583	1604	06327	45338	.45302	.27107	.18195	
	1.201	6.839 Coantfut	02000	11020	00767	00050	00055	.00169	00224	
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TABILATED SOURCE DATA, LARC OFT.-667 (1A-41) CATE 12 JUL 74

LRC 8 TPT 667 1A41 T1P151P204

(Bee003) (13 MAY 74)

FAGE 107

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES

SHEF = 2690.0000 SQ.FT.

LREF = 1290.3000 INCHES

SCALE = .0130 SCALE

ALPHA =

.ng RUDDER =

900

PARAMETRIC DATA

449259 .449259 .482190 .512725 .510141

. 296 . 794 . 693 . 980 1.200

PAGE 108

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LRC 8 TPT 667 1A41 T1P1S1P201

PARAMETRIC DATA

(380004) (13 MAY 74)

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 2690.0000 59.FT. 1290.3000 INCHES 1290.3000 INCHES .0130 SCALE

SECTION SECTIO

RN/L = 3.18 GRADIENT INTERVAL = -5.00/

26/ 0

RGN NO.

BETA

RUDDER ş

CABT .18906 .18453 .17124 .17124 .15862 .15862 .15862 .15862 .15862 .15862 .15862 .15862 .15862 .15862 .15862 .15862 .15862

.07684 .07684 .08301 .09319 .09882 .10195 .10027 .09510 .05112 .06135

26590 26594 26694 26694 26413 26413 26413 26413 26513 26513 26613 26613 261393 261393 261393 261393 261393 261393 261393

26531 26685 26685 26319 26357 26186 25420 2468 223509 22423 21202 21202 21202

34672 .28336 .22772 .17540 .13125 .08704 .03861 ..05716 ..05095 ..15603 ..15603

CN --.82844 --.57244 --.13128 --.39628 --.15871

BETA -.01414 -.02238 -.01393 -.0145 -.0145 -.0036 -.0036 -.0034 -.01973 -.01255 -.00401

. 598 . 693 . 693 . 598 . 598 . 598 . 598 . 598 . 598 . 598

ALPA -12.002 -9.504 -7.305 -4.972 -2.787

1.842 4.094 6.340 6.340 8.613 10.883

-5.00/

GRADIENT INTERVA

RW. = 1.89

RGN ND.

.19160 .19160 .18761 .17177 .16395 .15644 .15220 .15272 .15724 .15724 .15724

.10234 .10234 .10301 .10458 .10914 .11559 .11611 .10371 .10366 .10006

.29394 .29063 .29063 .28549 .27649 .27214 .26601 .26601 .25643 .256139 .00219

CA .29361 .29021 .28505 .28040 .27622 .27103 .26463 .26463 .25632 .25532 .25532 .25532

.32584 .25502 .21324 .115990 .11117 .06218 .01163 -.08603 -.17655

CN -.78405 -.63186 -.50055 -.24159 -.11703 .00330 .3628 .3628 .50514 .05639

ATA --.00777 --.00575 --.00505 --.00505 --.00505 --.00505 --.00505 --.00505 --.00505 --.00505 --.00505 --.00505

ALPIA -11.351 -9.051 -6.958 -4.755

-.344 1.805 4.027 6.273 8.390 10.564 GRADIENT

3.55

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PAGE 109	(Bg8004) (13 MAY 74)
TABULATED SOURCE DATA, LARC BF1667 (1A-41)	LRC 6 7PT 667 1A41 TIPISIP201
CATE 12 JU. 74	

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	LOC & TOT KAT TAN TIPICIPON
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	000.	
4140	RUDDER =	
PAKAMETKIC DATA	900*	
Z.	18	
	BETA	
		•
	* = 976,0000 INCHES * = 00000 INCHES * = 400,0000 INCHES	
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ITA	27 V SEC. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	
REFERENCE DATA	2690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES 1130.3000 INCHES	
	SREF : LAEF : BAGF : SCALE :	
	2222	

ALPHA BETA CN -11.6330083983609 -9.3510100666272 -7.1470079350167 -4.8470079350167 -2.650 .0003124591 1.846 .01644 .07314 4.083 .02293 .20166 6.299 .01644 .07314 10.746 .01242 .55559 RRADIENT .00324 .06173 RUN NO. 23.7 D RNAL = 2.4 ALPHA BETA CN -12.0000002069662 -9.612 .0007769967 -7.3090032656677 -2.7310013122254	CLM .34907 .27382 .27382 .14253 .08333 .02567 08762 16702 16702 20670 02619	CA .32745 .32745 .32542 .31862 .31347 .30291 .29487 .29596 .29948 .29948 .29948 .29948 .100237 .100237	. 3276 . 3276 . 32578 . 31948 . 31949 . 3094 . 3094 . 29515 . 29515 . 29515 . 29731 . 30933 . 30933	CAFT .12245 .12245 .13245 .13525 .13529 .13529 .13520 .13520 .13520 .13520 .13520 .13520	CABT 20531 9032 .19064 .17357 .1659 .15914 .1595 .1595 .17907
0033 0033 0033 0033 0033 0033 00324 00324 00324 00324 00326 00326 00326	.27382 .27382 .20489 .14253 .08333 .02567 08976 12075 16702 20670 02619	.32745 .32542 .31862 .31347 .31346 .30291 .29487 .29596 .29596 .29948 00237	.2276 .3278 .31946 .31419 .30949 .30949 .29515 .29515 .29731 .29731 .30033	.12245 .12746 .13245 .13592 .13581 .13581 .13520 .13520 .1354 .12742 .12127 .00029	.20531 .:9632 .19064 .18174 .17357 .16659 .1594 .15957 .17907 .17907
0052 0053 0053 0053 0053 0053 0053 0052 0052 0052 0052 0052	.27362 .20469 .14253 .08333 .08333 .02567 08976 16702 20670 0619	.32542 .31862 .31347 .30291 .29487 .29391 .29596 .29948 .29948	.32578 .31948 .31949 .30387 .29595 .29515 .29731 .26927 .30033	.12746 .12693 .13545 .13592 .13581 .13520 .13524 .13742 .12742 .12742	9032 .19064 .19064 .17357 .16659 .1594 .15995 .16387 .1797 .1797
00793 00793 00530 00533 00533 00533 00742 00724 00726 00726 00936 00936	.20489 .14253 .08333 .08333 .02567 03762 16702 20670 02619	.31882 .31347 .31347 .30291 .29487 .29596 .29596 .29948 .29948 .29948	.31948 .31419 .30349 .30387 .29515 .29531 .26927 .30033	.12683 .13245 .13592 .13729 .13611 .13520 .13344 .12742 .10029	.19064 .18174 .17357 .16659 .15914 .15995 .16387 .17185 .17185
	.14253 .08333 .02567 03762 12075 12067 20670 02619	.31347 .30869 .30291 .29391 .29596 .29596 .29948 00237	.31419 .30949 .30367 .29515 .29515 .295731 .295731 .30033	.13245 .13592 .13729 .13520 .13544 .12742 .10029	.18174 .1735 .16659 .15914 .15995 .16387 .1785 .17907
	.08333 .02567 .02567 03762 12075 16702 20670 02619	.30869 .30291 .29487 .29391 .29596 .29948 00237	.30949 .30387 .29515 .29515 .295731 .29573 .30033	.13592 .13729 .13581 .13520 .1354 .12742 .12127 .00029	.17357 .16659 .15924 .15995 .16387 .17907 D0259
	.02567 03762 08976 12075 16702 20670 02619	.30291 .29487 .29391 .29596 .29825 .29948 00237	29595 29515 29515 29731 29731 30033 -00231	.13729 .13681 .13520 .13344 .12742 .00029	.1659 .15914 .15995 .16387 .17185 .17907
	03762 08976 12075 16702 20670 02619	.29487 .29391 .29596 .29825 .29948 00237 INTERML =	29595 29515 29515 28927 30033 00231	.13681 .13520 .13344 .12742 .12127 .00029	.15914 .15995 .16387 .17185 .17907
	08976 12075 16702 20670 02619	.29391 .29526 .29825 .29948 00237	.29515 .29731 .29927 .30033 .00231	.13520 .13344 .12742 .12127 .00029	.15995 .16387 .17185 .17907
	12075 16702 20670 02619	.29596 .29825 .29948 00237 INTERWL =	.2927 .30033 .00231	.13344 .12742 .12127 .00029	.16387 .17185 .17907 00259
	16702 20670 02619	.29825 .29948 00237 INTERVAL =	.30927 .30933 00231	.12742 .12127 .00029	.17185 .17907 00259
5 .01242 .00324 .00324 00020 000326 00326 00326	20670 02619 .05 GRADIENT	.29948 00237 INTERVAL =	.30033	.12127 .00029 5.00	.17907
BETA BETA0032600326005200532005320053200533005330053300693	02619	00237 INTERWAL =	00231	00°s	00259
BETA BETA 00020 00326 00352 00532	.05 GRADIENT	INTERVAL =	.8.00.V	5.00	
BETA 00020 000326 00328 00352 00151			1		
0020 00326 00326 00352 00151	3	5	2	CAFT	CABT
	.36455	.41122	.41149	.16339	.24810
00326	.28350	.40609	.40636	.17053	.23583
00552	.21340	.40288	.40340	.17593	.22747
00151	.15250	.39731	.33813	.17883	.21930
.00893	.10305	.39416	.39520	.18182	.21338
	.05714	39390	.39516	.18025	.21490
02031	00219	.39323	.39434	.17890	.21544
172471	07604	.39952	4004	.17969	.22075
71810	13200	.39534	.39628	.17294	.22334
90210	17775	.39309	39446	.16676	.22770
CARTA	22810	.38856	39028	.15876	.23152
	10707	4000	71000	- United	COULT

PAGE 109

(13 MAY 34)

(Bee004)

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REFERENCE DATA

LRC 8 TPT 667 1A41 T1P1S1P204

PARAMETRIC DATA

.000 RUDDER = BETA

980

-5.00/ RN/L = 2.10 GRADIENT INTERVAL =

976.0000 INCHES .0000 INCHES 400.0000 INCHES

2699.6090 54.FT. 1290.3090 INCHES 1290.3090 INCHES .0150 SCALE

SCALE:

CABT 221760 221760 221760 220036 119485 119171 119219 119324 119169 118651 116934 ... CAFT 24012 25082 24179 24179 24179 24179 24176 24176 25134 24178 251346 251346 25136 25136 20000 CAT .45772 .45400 .44998 .44645 .44256 .44093 .44097 .42198 .41684 .00028 CA .45772 .45404 .45005 .4637 .4181 .4394 .4394 .43243 .43243 .43243 .43243 CLM 36926 27958 21082 115203 09210 002100 02200 -07284 -13261 -13261 -13261 -13261 -13261 CN --99436 --72464 --54503 --22782 --0644 --21007 --35121 --47919 --59447 --0626 BETA .00559 .00221 ..00151 ..00407 .00567 .00503 .01090 ..00401 .00399 ALPHA -12.356 -9.982 -7.593 -5.183 -2.934 -6.402 6.402 8.632 10.945 GRADIENT RUN 160.

XAC.A. .373980 .396540 .424264 .400456 . 599 . 799 . 699 . 580 1.200

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(IA-41)
T667 (1
1, LARC 8FT667
ABULATED SOURCE DATA
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TABUL
JU. 74
CATE 12 JU. 74

LRC 8 TPT 667 1A41 T1P1S1P201

(B@8005) (13 MAY 74)

PARAMETRIC DATA

PAGE 111

-20.996

RUDDER =

86.

ALPHA

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES MERCY VARIO 2690.0000 59.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE SALT :: BRET :: SCALE ::

GRADIENT INTERVAL = -5.00/ 5.00 RN/L = 3.17 21/0 SEN ED.

CABT .19027 .18636 .18636 .17407 .16810 .16849 .15973 .16164 .16481 .17070 CAFT .08790 .09214 .09552 .10794 .11161 .111594 .11590 .11859 .11859 .27817 .27849 .27804 .27804 .27804 .27611 .27569 .27567 .28273 .28340 CA ...27711 ...27786 ...27859 ...27818 ...27818 ...27818 ...27846 ...27825 ...28270 ...28359 ...28713 ...00005 CBL .04616 .03674 .02519 .01256 .01195 .01195 .01195 .05319 .05319 .0536 CYN
-.13761
-.1139
-.07909
-.07909
-.07935
-.00657
-.07611
.11272
.15101
.18242
.20163 CY .38681 .39580 .22612 .14239 .03671 .03671 .1236 .28731 -37202 -44371 BETA -10.896 -0.769 -6.511 -4.352 -2.181 -.006 2.171 4.335 6.486 8.760 10.691

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.19533 .19024 .18358 .17692 .16969 .16081 .15824 .15824 .16085 .16085 .10369 .10886 .11355 .11706 .12007 .12514 .13039 .13624 .13939 .13628 5.00 .29902 .29910 .29112 .29318 .28976 .28982 .29988 .30326 .30747 GRADIENT INTERVAL .29865 .29871 .29375 .28964 .28854 .28828 .29457 .30017 .30790 CBL .05514 .05514 .05514 .05514 .0557 .01677 .00220 .01105 .02534 .02534 .05462 .05367 .00546 RML = 1.89 CYN
-.16814
-.13759
-.09953
-.06057
-.01757
-.01757
.07435
.15345
.15345 CY .42549 .34109 .24989 .16.37 .07024 .11558 .-11558 --21481 --30465 --47144 0 /02 BETA -10.751 -0.573 -6.365 -4.309 -2.124 -.034 2.099 4.268 6.365 8.528 10.729 64ADIENT RUN NO. ##CH - 800 - 8

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CATE 12 JU. 74			TABULA	TABULATED SOURCE DATA, LARC 8FT667 (IA-41)	IA, LARC OFT.	667 (1A-41)				Z	PAGE 112
			¥	LRC 8 TPT 667 1A41	1191519200				(Beenos)	(13 MAY 74	MY 74)
T	REFERENCE DATA	ATA						PAR	PARAMETRIC DATA	ATA	
SACF = 2699,0000 LREF = 1290,3005 BREF = 1290,3000 SCALE = .0155	.0000 59.FT3000 INCHES .3000 INCHES .0150 SCALE	MACE III	976.0000 .0000 400.0000	976.0000 INCHES .0000 INCHES 400.0000 INCHES			₹	ALPHA =	.000 R	RWDER =	-20.000
		RUN NO.	19/ 0	RW.L = 1.99		GRADIENT INTERVAL =	-5.00/	5.00			
	MACH	BETA	5	25	ਰੰ	3	5	באַ	CABT		
	906	-10.894	.47613	•	.06551	.33824	.33858	.12663	.21195	_	
	5	-6.700	.38103		.05250	.33644	.33678	.13245	.20432	•	
	951	-6.471	.28267		.03744	.33062	33094	.13542	.19532	•	
	336	-4.286	.18418		.02094	.32464	.32490	.13781	.18709		
	906	-2.187	.0839	•	.00444	.31805	.31812	.13969	.17843	_	
	00s.	016	02367		01175	.31567	.31639	.14643	.16996		
	20 6.	2.146	13067	_	02843	.32074	.32099	.15233	.16866		
	006	4.365	24070	_	04580	.32659	.32646	.15615	.17031		
	.899	6.515	33428	8 .18706	06043	.33547	.33513	.16166	.17348		
	-89	6.638	42462	·	07222	.34320	.34267	.16383	.17886		
	.	10.815	51569	·	08241	.35050	35004	.16334	.18670		
		GRADIENT	04920	08520* 0	-,00769	.00032	•2000•	.00228	00199		
		RUN NO.	17/ 0	RN/L = 2.05		GRADIENT INTERVAL =	-5.00/	5.00			
	TO TO	BETA	5	Š	ē	5	7	CAFT	CART		
	98.	-11.020	.50478		.07524	.42978	43004	17393	.25611		
	.981	-8.771	39598		.05930	.42860	.42895	.17836	.25059		
	.978	-6.617	.29375	5 12494	.04257	.41900	.41918	.17996	.23922		
	976.	4.375	.18929		.02404	.41381	.41396	.18240	.23155		
	.979	-2.224	.08440	_	.00560	.41091	.41140	.18502	.22638		
	976.	-:029	-,02625	03328	01347	.40765	.40649	.18780	.22068		
	.978	2.118	13410		03153	.41078	.41090	.19557	.21534		
	.978	4.357	24485		05046	.41776	.41750	.20281	.21468		
	096.	6.541	34885		06869	.43025	.42987	.21114	.21872		
	.978	8.742	44585	.23205	08285	.43497	.43451	.21172	.22279		
	.979	10.932	54576		09590	.43858	43833	.21052	.22780		
	•	GRADIENT	04984	.02569	00854	.00036	.00031	.00236	-,00205		

9.0

CATE 12 JU. 74	TABILATED SOURCE DATA, LARC 8FT667 (IA-41)		746
	LRC 8 TPT 667 1A41 TIP151P201	(B98005) (13 MA)	(13 14)

	-20.000
DATA:	RUDDER =
PARAMETRIC DATA	000*
	ALPHA
	INCHES INCHES INCHES
	976.0000 .0000 400.0000
	11 11 11
17	MARP YARP ZYRP
REFERENCE DATA	SQ.FT. INCHES SCALE
131	2695.0095 1295.3060 1295.3000 1295.3000
	10 14 10 14
	SAEF LEEF BAEF SCALE

	RUN NO.	18/0	RN/L = 2.11	11 GRADIENT	INTERVAL =	-5.00/	5.00	
Ž	BETA	5	Š	ਭੱ	5	5	F	CABT
1.201	-6.934	37318	13639	.05897	.46206	.46209	.25254	.20954
1.201	-6.636	27346	10264	.04270	.45852	.45862	.25384	.20478
1.201	-4.439	17751	06485	.02551	.45292	.45329	.25315	.20013
1.291	-2.163	96920	01923	.00677	.44733	.44787	.25105	.19682
1.201	032	-, D1863	02569	01037	.44769	.44858	.25431	.19427
1.251	2.174	-,11496	.07229	02709	.44915	.44920	.26279	.18641
1.27.1	799	21546	11799	04514	.45292	.45272	.26952	.18320
1.25	6.572	31235	.15793	06199	.45793	.45763	.27706	.18057
1.200	8.912	41532	19403	07825	.46302	.46263	.27779	.18484
1.201	11.164	51453	.22564	09205	.46656	.46628	.27682	.18946
	COADIENT	- 04442	F.2077	00796	กกกกล	100001	.00202	000201

YACAL	.455308	.495486	.524361	.515435	.467514
Đ	.598	908	999	.980	1.201

(14-41)
8FT667
LEC.
DATA
SOURCE
ABULATED

LRC 8 TPT 667 1A41 T4P6S1P201

(B@@006) (13 MAY 74)

PARAMETRIC DATA

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RUDDER

8

BETA

KORRP VARRP 2690.0000 56.FT. 1290.3000 INCHES 1290.3000 INCHES 5.50.5000 INCHES SKEF = LREF = BREF = SCALE =

976.0000 INCHES .0000 INCHES 400.0000 INCHES

RN/L = 3.18 GRADIENT INTERVAL = -5.00/ 5.00 31/0 FUN NO.

CABT	18875	18495	17971	17050	16324	1590	15450	15315	15955	15277	15296	00189
CFT	11770.	0.080.6	.08703	09360	10028	.10140	1002	.09424	.08453	17325	.06064	0000
5	.26586	.26702	,26680	.26410	.26351	.26049	.25486	.24739	23708	.22601	21350	00184
5	.26524	.26629	20992	.26324	.26258	.25936	.25358	.24579	.23520	.22413	.21166	00192
	_											02020
3	80187	65672	52044	38868	-,26667	14915	02380	.10069	.22132	.35149	.49357	.05332
BETA	01532	-,71607	D116e	00558	00227	.01149	.02130	.02676	.02284	.01926	.01352	.00385
			-7.172									
	_	_	8 65,									-,

.19151 .19151 .18692 .17877 .17001 .15165 .15509 .15273 .15289 .156082 .16082 CAFT .10176 .10259 .10502 .11052 .11042 .11042 .11042 .10359 .10359 .10359 .10359 .10359 .10359 .10359 -5.00/ CAT ...69327 .28961 .28053 .28053 .27607 .27607 .276573 .26573 .25647 .25647 .25647 GRADIENT INTERVAL = CA .29297 .28330 .28330 .27540 .27540 .26333 .25633 .25634 .25749 .256041 .26041 .26041 CLM .32856 .26436 .20828 .15741 .10580 .05837 .00613 -.04037 -.08918 -.13607 CN -.78360 -.62541 -.48536 -.35769 -.10985 .10833 .14210 .27091 .39497 .51098 6ETA -.00616 -.00576 -.00546 -.00748 -.00201 .01591 .01178 .011878 .011878 .01061 ALPHA -11.433 -9.037 -6.790 -2.489 -2.56 1.900 4.195 6.359 8.511 10.676 6RADIENT

PAGE 114

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(14-41)
TABULATED SOURCE DATA, LARC 8FT667 (1A-41)
SOURCE DATA,
TABULATED
CATE 12 JUL 74
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PAGE 115

(13 MAY 74) (Beenoe) LRC 8 TPT 667 1A41 T4P651P204

.000 RUDDER PARAMETRIC DATA BETA 976.0000 INCHES .0000 INCHES 430.0000 INCHES REFERENCE DATA 2690.0000 59.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

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.20346 .19851 .19851 .17529 .17522 .15810 .15810 .15967 .11944 .17952 .12398 .12398 .12611 .12894 .13419 .13622 .1378 .13578 .13578 .13578 .13578 .13578 .13605 5.08 .32744 .32462 .31800 .31348 .30704 .30509 .29515 .29717 .30120 .30120 GRADIENT INTERVAL CA .32722 .32722 .32722 .31738 .31738 .31738 .31276 .30211 .29591 .29591 .29591 .29591 .29591 .29591 .30044 .000221 .29592 .30044 .300221 .29591 GRADIENT CLM .34580 .27086 .20025 .07692 .07692 .07692 .07692 .07692 .07692 .07692 .07692 .07692 .07692 .07694 .0769 RN.1 = 2.00 CN -.62270 -.48853 -.33662 -.19151 -.05268 .06439 .21231 .32786 .44649 .55893 BETA -.00426 -.00419 -.00419 .00186 .01824 .01642 .01004 .00315 0 /82 ALPH -11.546 -9.239 -6.963 -2.446 -2.446 -2.46 1.952 4.208 6.483 6.598 10.783 3 RUN NO.

.16054 .16627 .17326 .17326 .17326 .17380 .17380 .17809 .17809 .17809 .17809 .17809 CAT .40563 .40259 .39603 .39603 .39603 .39603 .39603 .39603 .39603 .39603 .39603 .39600 .38676 .39600 .00012 CA .40534 .40249 .39995 .3950 .39608 .39612 .39618 .39195 .38739 .38365 .36200 .27943 .27943 .20797 .14776 .09660 .05169 -.00792 -.08776 -.14165 CN -.88668 -.68914 -.51308 -.21966 -.19661 -.19661 -.19661 -.19661 -.19700 -.35132 -.48471 -.60008 BETA .00322 .00121 -.00273 -.00243 .01222 .02611 .01599 .01023 ALPHA -11.966 -9.547 -7.171 -2.687 -3.76 1.927 4.165 6.401 10.594 6601 10.594 976. 978. 979. 981. 979. 979. 979. 979. 979.

(14-41)
8FT667
Z
DATA,
SOURCE
ABULATED :
2

CATE 12 JUL 74

LRC 8 TPT 667 1A41 T4P6S1P201

(BQ8006) (13 MAY 74)

PAGE 116

PARAMETRIC DATA

BETA

6

.000 RUDDER =

976.0000 INCHES .0000 INCHES 400.0000 INCHES

1290.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

SAEF :: LAEF :: BREF :: SCALE ::

REFERENCE DATA

o. Ø.

27/ 0

REN NO.

RN/L = 2.11 GRADIENT INTERWAL = -5.00/ 5.00

CAT .45787 .45403 .44953 .44266 .44241 .44134 .44095 .45206 .42165 .45206 .42165 .41712 .00019 CA . 45789 . 4538 . 44135 . 44135 . 44135 . 44135 . 44135 . 42135 . 421046 . 43105 . 411616 . 411616 . 411616 . 411616 . 411616 CLN 37725 28402 21083 15163 108966 0.08966 0.08966 0.08402 -.08402 -.19346 -.22458

21847 221847 221847 221847 221847 219411 219411 219548 219828 218827 218971 --00020

CAFT 23940 239540 229540 229574 24591 24591 24622 23908 223938 22741 000001

ALPAA. -12.416 -9.903 -7.395 -2.737 -2.757 -4.185 6.482 8.685 8.685 6.4809 6.4809

CN - 94443 - 72585 - 53610 - 17782 - 21730 - 106443 - 22055 - 52059 - 60499 - 60499 BETA .01133 .00571 .00571 .00541 .00541 .02568 .01109 .00700

XACAL. 378736 398783 426530 402271 . 599 . 799 . 900 . 976 . 1.201

(865507) (13 MAY 74)

PARAMETRIC DATA

	900.	
DATA	RUDDER =	
PARAMETRIC DATA	000.	
	ALPAA #	-5.00/ 5.00
		00'S 10'S - 2 14 COUNTRY INTERVAL 5 -5.00/ 5.00
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	INCHES INCHES INCHES	r was
	2 976,0000 E 2 0000 E 3 400,0000 I	26.0
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REPERENCE DATA	2690.0000 54.FT. 1290.3000 iNCHES 1290.3000 INCHES .0150 SCALE	
	SCALE ::	

.601 -10.922 .41784 .601 -10.922 .41784 .601 -6.366 .26434 .17643 .600 -2.384 .17643 .600 .00099 .00099 .600 .00099 .00099 .600 .00099 .24594 .4134 .600 .10.720 .44739 .600 -4.300 .19488 .600 -4.300 .19488 .600 -2.174 .10127 .600 -2.174 .10127 .600 -2.174 .10127 .10127 .600 -2.174 .10127 .1999 .600 -2.174 .10127 .1999 .600 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .1999 .200 -2.174 .10127 .200 .2.105 -2.177 .200 .1999 .2.105 -2.177 .200 .1999 .2.105 -2.177 .200 .1999 .2.105 -2.177 .200 .200 .2.105 -2.177 .200 .2.105 .2.105 .2.105 .2.105 .2	CY -41768 -34292 -26437 -177697 -000899 -007707 -16036 -24594 -33083 -41334	CYN 17310 14895 11802 07974 04222 50366 .03538 .07425	CBL .09905 .09905 .09905 .00104 .00106 .0010	27263 2734 26778 26608 26608 26945 2694 26945 26	CAT 27362 26633 26633 26673 26673 26673 26673 26527 26527 26539 26589 27204	08318 08414 08733 09512 09623 10167 11167	.19044 .19044 .18691 .17163 .15579 .15579 .15530 .15755 .15360
-8.786 -10.922 -4.786 -4.386 -6.483 -10.884 -10.884 -10.884 -1.720 -6.449 -6.44	.41788 .34292 .26437 .17697 .09263 .00707 .16036 .24594 .33083		.05905 .05092 .05092 .01041 .01163 .01163 	2726 27034 26078 26086 26086 26148 26148 26467 3657 3657 3657 3657 3657 3657 3657 36	2362 26833 26833 26833 26833 26833 26833 26833 26833 26833 26833	.08318 .08414 .08733 .09512 .10167	.19544 .18691 .18100 .15598 .15578 .15579 .15570 .15530
6.366 6.366 6.366 6.366 6.485 6.485 6.485 6.485 6.485 6.485 6.485 6.485 6.485 6.485 6.485 6.486	24292 26437 17597 19263 19369 16136 24594 33083 41334	14895 11802 07974 0422 50366 50368 .03538 .07425	.05092 .04041 .02719 .01367 .01368 	2004 2608 2608 2604 2604 2644 2644 2644 365 365 365 365 365 365 365 365 365 365	26833 26633 26673 26673 26139 26139 26257 26253 26253 26889 27204	.08414 .08733 .09512 .09823 .10167	.18691 .18100 .17163 .16598 .15572 .15579 .15755 .15755
-6.266 -4.364 -6.366 -6.485 -6.485 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489 -6.489	26437 17597 17597 101639 101707 16136 24594 33183 41334		.0404 .02719 .01367 .01367 	2608 2608 2608 26045 26142 26465 2646 2646	26633 26421 26421 26421 26429 26525 26533 2639 2639	.09512 .09512 .09623 .10167	.10100 .17163 .16598 .15972 .15579 .15550 .15755 .15645
-2.132 -2.132 -2.132 -2.132 -2.132 -2.173 -2.173 -2.173 -2.173 -2.173 -2.173 -2.173 -2.173 -2.173 -2.173	17697 17697 16036 16036 13083 13083 13384	07974 04222 00366 .03638 .07425		26608 26366 26348 26448 26448 26448 26448 26448 26448	26673 26421 26421 26421 26525 26535 26689 26689	.09512 .09823 .10167 .10677	.17163 .16598 .15972 .15579 .15530 .15755 .15755
2.132 2.132 6.465 6.465 10.884 68ADIENT 68ADIENT 68ADIENT 6.449 -6.449 -6.449 -2.174 024 -2.174 024	09263 00899 07707 16036 33083 41334	0422 0366 .0368 .07425	101.00 10	26366 226142 26142 26463 373 373 373 373 373 373 373 373 373 3	26421 26424 26257 26253 26839 27204	.10167	.16598 .15972 .15579 .15550 .15755 .15845
6.465 6.465 6.465 6.465 6.465 6.465 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.430 6.	24594 24594 33083 33083 33083 33083	.0368	86.55 86 86.55 86 86 86 86 86 86 86 86 86 86 86 86 86	.26142 .26142 .26465 .26465 .203 .40264	26253 26253 26553 26553 26889 27204	.10167	.15972 .15579 .15550 .15755 .15845
2.132 4.292 6.463 10.884 6.463 10.884 10.884 10.720 10.720 10.300 10.224 2.133 4.230	07707 16036 24594 33083 41334 03891	.03638	4.02238 4.02238 4.02238 4.027234 4.02723	26468 26468 1887 1887 1888 1888 1888	26253 26253 26733 27204	.10677	.15370 .15330 .15755 .15845
6.485 6.485 10.884 6.401ENT 10.720 -6.439 -6.439 -6.439 -6.174 -024 -174 -1024	16036 24594 33083 41334 03891	.07425	2000 - 10	28466 1880 1880 1880 1880 1880 1880 1880 18	.26553 .26735 .26889	11023	.15730 .15755 .15845 .16360
6.485 6.485 6.485 10.884 6.485 6.489 6.489 6.489 6.174 7.024 7.105 6.174	24594 33083 41334 03891	11066	1. 18 18 18 18 18 18 18 18 18 18 18 18 18	18 5 B	.26889 .27204		.15755 .15845 .16360
6.40 6.671 10.884 6.840 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449 6.449	33083 41334 03891		100 to 10	1000 -	27204	10980	.15845
64ADIENT 64ADIENT FUN NO. 10.720 -6.449 -6.449 -2.174 024 -2.174	41334	6 # M P	****	Salan-	27204	11043	.16360
64ADIENT RUN NO. 10.720 -6.449 -4.300 -2.174 024	.03891	C. 186.		, unite.		10843	
64ADIENT RUN NO. 10.720 -6.449 -6.449 -2.174 024 024	.03891	3	יייייייייייייייייייייייייייייייייייייי	- teller		700	90100
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BETA -10.720 -6.449 -6.449 -6.300 -2.174 -024 -2.105 -4.230	35/ G R	RNA. = 1.89	GRADIENT	INTERMAL =	-5.00/	5.00	
-10.720 -8.587 -6.449 -4.300 -2.174 024 -2.105	5	C	ਭ	5	2	CAFT	CABT
4.130 4.130 4.130 4.130 4.134 4.230 6.234	4730	-,19511	.06434	.29371	.29407	.09943	.19464
6.149 6.130 6.134 6.103 6.103	16478	16324	.05320	.29133	.29177	.10213	.18964
2.174 2.174 2.105 2.105 4.230	28197	-,13190	.04298	.28731	.28760	.10651	.18109
2.174 2.105 2.105 4.230	10488	09472	.03055	.28126	.28157	.10754	.17402
2.105	10101	74989	01538	.27573	.27605	.10993	.16612
2.105	0100	-,00530	00219	.27131	.27226	.11466	.15760
4.230	081%	.04001	01068	.27421	.27506	.12250	.15356
000		DARI S	02524	.27876	27895	.12549	.15346
	96864	12750	03882	.28311	28304	12797	.15507
	1,004	16037	174921	28818	28803	.13013	15790
10.0		10650	- D6143	77202	20000	.12866	.16356
10.667	000	90061	C+100°-	14364	10000	0000	1,00254
_	04329	.02116	05845	00031	-,0000	62200.	00634

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CATE 12 JUL 74

1 22 1		.000
(Ba6007) (13 MAY 74)	DATA	RUDDER =
00000	PARANETRIC DATA	.000
		ALPAA ::
14P651P201		
LRC 8 TPT 667 1A41 T4P651P201		YMEP = 976,0000 INCHES YMEP = .0000 INCHES ZMEP = 400,0000 INCHES
	4	XXXX = 1
	REFERENCE DATA	2690.0500 SQ.FT. 1295.3000 INCHES 1295.3000 INCHES .0150 SCALF

SELF :: BREF :: SCALE ::

	CART	21.60	00706		10467	1831/	.17413	.16589	.16435	16506	16743	17494	17001	.00213		, vo.	26674	1,663.	24901	2000	20022	24647	91544	20040	21246	21770	91173	.00232
5.00														-00194	5.00		_											.00193
-5.00/	2	.33685	33146	42274	1116	10000	17900	.30393	.35726	.31094	.31810	.32588	13267	00019	-5.007	77	42420	424.70	41072	1007	39533	300	39456	39891	40994	41836	42330	00039
T INTERVAL	3	.33644	.33107	32263	4144		acouc.	. 20203	.30668	.31110	.31837	.32618	.33300	00018	INTERWL :	5	42404	42143	41045	40255	.39489	72165	39386	39906	.41022	.41862	.42366	00037
GRADIENT	ਵ	.07288	.06073	.04879	713511	01046	0000	ייייייייייייייייייייייייייייייייייייייי	01251	02890	04360	05737	06876	00736	GRADIENT	ಕ	.08529	97170	.05631	98860	.02065	.00224	01539	.03315	.05051	.06602	.08074	00826
RN/L = 1.99	E S	22572	19%	15375	-11230	- N6005	10000 -	00466	.04948	.10365	.14778	.18889	.22394	.02511	RN/L = 2.05					_	05983						·	·
34/ 0	ځ	.49267	.39994	.31139	.21732	11634	7.00	1010	09338	19776	29293	38792	48093	04615	33/0	გ	. 52248	.42280	.32252	.22132	9087	.00838	09897	20526	30705	40598	51267	04909
RUN NO.	BETA	-10.868	-8 .678	-6.513	4.356	-2.198	020	6000	2.121	4.282	6.443	6.613	10.795	GRADIENT	RUN NO.	NI SE	-10.968	-6.792	-6.589	4.412	-2.212	030	2.146	4.319	6.520	8.721	1927	GRADIENT
	MC	900	900	900	500	2000	50		669	200.	. 899	669.	669.			:5 **	.98C	980	.980	.981	286.	.980	.979	576.	980	.980	.9 80	•

PAGE 119

(\$46007) (13 MAY 74)

PARAMETRIC DATA

RUDDER = 8

8

ALPHA

RNA. = 2.11

976.0000 INCHES .0000 INCHES 400.0000 INCHES

2690,0508 50.FT. 1291,3058 INCHES 1290,3058 INCHES .0158 SCALE

SATE :: LAST :: SCALE ::

REFERENCE DATA

CAFT 24858 2.4965 2.4960 2.24710 2.24710 2.25315 2.26863 2.26845 3.26845 3.00151 GRADIENT INTERVAL = -5.00/ 5.00 45906 45421 45421 44215 44124 44124 44126 44362 44362 45321 45321 45461 CA ... 55904 ... 55904 ... 44163 ... 44017 ... 44019 ... 44850 ... 45350 ... 45387 ... 65380 ... 65380 ... 65380 ... 65380 ... 65380 ... 65380 ... 65380 ... CYN -.16586 -.13178 -.04792 -.00373 .04392 .08831 .12893 .16395 .02063 CY 39681 30173 20354 10382 00936 -.08803 -.18487 -.28286 -.38198 -.43378 9CTA -6.087 -6.087 -2.230 -.042 2.175 4.361 6.576 9.974 GRADIENT RUN NO.

.21754 .20457 .19990 .19505 .19505 .18784 .28197 .17959 .18706 .18706

YACAL .457838 .488942 .521533 .515523 .468933 .601 .600 .900 .900 .360

LRC 8 TPT 667 1A41 TAP651P206

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.000 RUDDER =

ALPHA =

(13 MAY 74)	2
(806006)	PARAMETRIC DATA
12P451P201	
LRC 8 TPT 667 1A41	

XES	ES	
2	400.000	
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YARD		
INCHES	INCHES	SCALE
1295,3555	1295,3555	.0159
48	**	
130	BREE	SCALE
	= 1295,3555 INCHES YMRP = .0550	LREF = 1295.3505 INCHES YMRP = .0500 INCHES BREF = 1295.3505 INCHES ZMRP = 400.0500 INCHES

RETERENCE DATA

	CABT	19054	.18661	.18585	.17175	.16587	.15976	.15545	.15516	15648	.15869	.16316	.00200		CABT	.19428	18782	18110	17356	16578	15609	
5.00				_			_						- 00196	9.00	75	.0967	.10323	.10532	.10725	.11014	.11629	
-5.00/	5	.27321	.27126	.26794	.26607	.26363	.26150	.25318	.26593	.26782	.26949	.27258	00003	-5.00/	5	.29294	.29105	.28642	.28080	.27592	.27239	
INTERVAL =	ಶ	.2722	.27058	.26741	.26545	.26310	.26036	.26204	.26510	.26735	.26937	.27256	00000	INTERVAL =	ಶ	.29257	250070	.28608	.28050	.27560	.27138	
GRADIENT	ਰ	.05914	.05131	.04017	.02762	.01334	.00194	01054	02282	03565	04778	05715	00572	GRADIENT	ĕ	.06425	.05310	.04253	.03034	.01535	.00220	
RN/L = 3.18	N.C.	16811	14622	11411	07922	03967	00379	.03689	.07248	. 1073	.14310	. 17144	.01743	RVL = 1.89		18998	_	_				
41/0	5	.41801	.34666	.26249	.17992	.08953	50000	07971	16011	24415	33160	41248	03896	40/0	Շ	.44612	.36278	.27828	.19315	.10069	.01007	
RUM NO.	BETA	-10.937	-8.775	6.572	4.426	-2.216	.033	2.145	4.297	6.488	8.682	15.657	GRADIENT	RUN NO.	BETA	-10.739	-6.595	-6.439	-4.312	-2.166	045	
	10	598	55	965	8	909	865	59	85	59	8	5				962	200	909	662	26	8	

Q.		Շ	Z.	ਵੱ	5	5	CAFT	CABT
79		.44612	18998	.06425	.29257	.29294	.09867	.1942
G		.36278	15917	.05310	29070	.29105	.10323	.1878
90		.27828	12764	.04253	.28608	.28642	.10532	.1811
66.		.19315	09195	.03034	.28050	.28080	.10725	.1735
5		10069	04845	.01535	.27560	.27592	.11014	.1657
8		70010	00456	.00220	.27138	.27239	.11629	.1560
5		08347	.04674	01158	.27453	.27534	.12279	.1525
908		17644	.08545	02540	.27853	.27875	.12581	1529
8		-,26439	.12486	03892	.28357	.28356	.12844	.15513
900	8.493	-,34863	.15699	04934	.28839	.28827	.13056	.1577
79		-,43905	19203	06145	.29248	.29230	.12871	.1635
}		04325	CIPCIAN.	09646	-,60023	00022	.00233	0025

TABULATED SOURCE DATA, LARC OFT,-667 (1A-41)	
CATE 12 JUL 74	

PAGE 121

(Beedes) (13 MAY 74) LRC 8 TPT 667 1A41 T2P451P201

.000 RUDDER = PARAMETRIC DATA ALPHA = 976.0000 INCHES .0000 INCHES 400.0000 INCHES 2767 :: SREF = 2699.0509 50.FT. LREF = 1290.3090 INCHES BREF = 1299.3090 INCHES SCALE = .0159 SCALE

REPERENCE DATA

8

5.00			_										.0020100219	8		_	_		.17008 .22875								
5.00/ 5	2	33620	.32949	.32141	.31305	.30563	.30353	.30720	.31029	.31779	.32659	.33285	05518	-5.00/ 5.	2	.42137	.41647	.40817	.39883	.39343	.39047	39099	.39656	.40448	.41426	.41550	-
INTERVAL =	5	.33576	.32914	.32110	.31283	.30550	.30258	.30660	.31042	.31802	.32682	.33315	00017	INTERWAL =	5	.42111	.41622	.40795	.39866	.39301	.38928	.39045	.39670	.40472	.41457	.41578	
GRADIENT	ಕ	.07299	.06057	.04858	.03504	.01861	.00257	01249	02893	04379	05772	06863	00735	GRADIENT	ම්	.08508	.07101	.05617	.03879	.02032	.00225	01556	03301	04971	06530	07991	
RN/L = 1.98	CYN	22251	18628	15096	11085	06023	00321	.04952	.10259	.14623	.18725	.22154	.52481	RN/L = 2.05	Š	23576	19608	15553	10876	05666	00172	.05411	.10511	.15040	. 19180	. 23375	14: 44
39/6	5	.49354	.39882	.31544	.21921	.11736	.05896	09378	19750	29274	38906	-,48052	04829	36/ 0	გ	.52005	.41936	32025	.21879	.11444	.00832	09955	-,20216	30147	40098	50495	!!
RUN NO.	BETA	-10.891	-8.696	-6.547	-4.386	-2.212	D48	2.102	4.273	6.427	8.612	10.792	GRADIENT	RUN NO.	BETA	-11.013	-8.818	-6.599	-4.421	-2.230	072	2.118	4.307	6.493	8.691	10.892	
	MACH	106	936	.899	689	669.	668.	689	669	669.	669.	668.			HYCH	D86	286.	€6.	286.	286	976.	.979	.979	.979	.979	.977	•

DATE 12 . A. 74

TABILLATED SOURCE DATA, LARC 8FT.-667 (IA-41)

LRC 8 TPT 667 IA41 T2P451P2CE

PARANETRIC DATA

(Beedde) (13 MAY 74)

PAGE 122

REFERENCE DATA

976.0000 INCHES .0000 INCHES 406.0000 INCHES TAR Y 2690.5500 SQ.FT. 1290.3555 INCHES 1295.3000 INCHES .6155 SCALE

SEEF : LEEF : BREF : SCALE :

RUN 160.

RUCCER = 8. ALPA

89.

GRADIENT INTERVAL = -5.00/ 5.00 RN/L = 2.12 37/0

.21322 .21342 .2036 .19876 .19875 .18945 .18945 .18945 .18947 .18994 .23189 .23332 .23332 .23137 .23139 .23737 .24702 .25763 .25268 .25286 CAT ..44511 ..44129 ..43565 ..43506 ..42887 ..42887 ..42862 ..43196 ..445082 ..44146 ...44146 .44509 .44122 .43536 .42536 .42714 .43210 .441110 .40041 CYN
-.16327
-.12869
-.08872
-.0151
-.00151
-.00151
-.12780
-.16218
-.16218
-.16218 C7 .39464 .29743 .19894 .10117 .00656 ..08661 ..28574 ..38203 ..43514 BETA -6.925 -6.692 -4.474 -2.252 -.039 2.145 4.366 6.833 10.006 6RADIENT

7ACA. .447375 .480850 .513734 .510005 .458712 . 589 . 789 . 901 . 960 1.201

CATE 12 JUL 74			TABULATE	tabulated source data, larc 8ft667 (1A-41)	., LARC OFT	667 (14-41)					PAGE 123	123
			18	LRC 8 TPT 667 1A41	12P4 \$1 P201				(Be8009)		(13 MAY 74	2
	REFERENCE DATA	4						PAR	PARAMETRIC DATA	DATA		
11 14 11	2690.0000 50.FT. 1290.3000 INCHES 1290.3000 INCHES	YNEP :: YNEP :: ZNEP ::	976.0000 .0000 400.0000	976.0000 INCHES .0000 INCHES 400.0000 INCHES			BETA		000	RUDDER =		8
SCAL" =	.0150 SCALE	RUN NO.	46/ 0	RN/L = 3.18		GRADIENT INTERVAL =	-5.00/ 5.	5.00				
	3013	4	85.14	3	5	5	CAT	CAFT	CABT			
		-11.884	01887	81895	.34130	.26597	.26565	.07686	.188	و ع		
	S	-9.588	01716	67045	.28140	.26697	.26764	.08290	184	2		
	99	-7.393	01459	·	.22805	.26666	.26741	.08735	18006	<u>ب</u> ۾		
	9690	£.999	01483		17604	.26415	.26494	.09449	2:	ត្ត ខ្		
	109.	-2.769	00097		.13065	.26246	.26340	19660	201			
	.699	501	.01050		.08769	.26034	.26145	.10227	901.	B 5		
	.650	1.743	02346	•	.04236	.25498	.25631	12101.		2 2		
	63	4.017	.03033		00525	.24716	.24874	67660.	in in	5 2		
	600	6.332	.02228	.21411	04763	.23645	.23828	.08599	.152	නු		
	599	8.591	.01587		60960*-	.22571	.22765	.07478	.152	284		
	665	10.670	.01795		15452	.21294	.21484	.06215	.152	නු		
	•	GRADIENT	6D\$DD*	.05365	02000	00184	00175	.00017	001	26		
		RUN NO.	45/0	RN/L = 1.89		GRADIENT INTERVAL =	-5.00/ 5.	5.00				
	7	A	BETA	3	đ	5	CAT	CAFT	CABT			
	790	-11.408	00883	78816	.32769	.29468	.29497	.10325	191	22		
	562	-9.147	00815	63717	.26712	.29047	.29085	.10319	.18766	99		
	562	-6.948	76700	50171	.21396	.28536	.28582	.10609	179	E.		
		4.739	0070	36565	.16037	.28080	.28130	.11052	27	2		
	62.	-2.541	00420	23927	.11136	.27647	.27716	.11455	162	. G		
		-,351	.00599	12191	.06464	.27202	.27309	.11724	155	*		
		1.833	.01551	.0019C	.01240	.26551	.26682	.11491	151	:		
		4.013	.02076	.12615	-,03309	.26108	.26271	11045	2251.	8 :		
	664.	6.239	.01772	.26129	08334	.25518	.25694	.10337	.153	<u>.</u>		
		8.435	.01028	.38520	12873	.25820	.25994	.10342	156	:		
		10.597	.00559	.49872	17240	.26072	.26253	.10239	165	*		
		GRADIENT	.00344	.05598	-,02221	00230	00217	.00001	002	9		

REFERENCE DATA

SAEF : LAEF : BREF : SCALE :

CATE 12 JUL 74

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PARAMETRIC DATA

. 000 .000 RUCDER = **BETA**

a wagon and		CABT .20436 .19800 .18838 .16344 .17244 .1554 .1554 .1736 .1736 .2706 .2196 .2196 .2196 .2196 .2196 .2196 .2196 .2196 .2196 .2196 .2196 .2196 .2196 .2196
	5.00 5.00	CAFT .12409 .12685 .13114 .13578 .13748 .13793 .13615 .13619 .00028 .00028 .16479 .17657 .17657 .17650 .17650 .17650 .17650 .17650 .17650 .17650 .17650 .17650 .17650 .17650 .17650 .17650 .17650
BETA	-5.00/	CAT
	GRADIENT INTERVAL =	LM CA 24895 .32822 27330 .32445 20357 .31335 14292 .31335 16297 .31335 16293 .30234 16593 .29450 12027 .29622 16673 .29522 16673 .2952 16673 .2952 16673 .3915 20407 .30122 66ADIENT INTERWL = 66ADIENT SAPE 1.5296 .39486 1.114 .40253 1.5296 .39486 1.1143 .39972 1.5296 .39476 1.13936 .39476
	GRADIENT	CLN .24895 .27330 .20357 .14292 .08397 .02869 15027 15027 1503 15027 1503 1503 15296 .10143 .05570 05570 05570 05570 05570 05570
INCHES INCHES INCHES	RN/L = 1.99	CN 65194 49792 35010 20621 07131 .19672 .31038 .43699 .55083 .55083 .55083 .56144 CN 89216 70336 37071 19655 .13635 .13635 .33835 .33835 .33835 .33835 .33835
976.0000 .0000 400.0000	44/ D R	######################################
MEP :: ZMEP :: ZMEP ::	GN NO.	ALPHA -11.669 -9.388 -7.1122 -3.74 1.864 1.958 6.285 10.729 6.285 10.729 6.285 10.729 6.301 -5.031 6.301 8.570 10.825 6.301
2690.0000 50.FT. 1295.3000 INCHES 1295.3000 INCHES .015. SCALE		### 1999

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CATE 12 JUL 74	TABILATED SOURCE DATA, LARC OFT667 (IA-41)		PAGE 125	52
	LRC 8 TPT 667 1A41 12P4S1P2O1	(B@8909)	(Beedos) (13 MAY 74)	_

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES DAGP TYSEP ZYREP SKEF = 2699.0000 54.FT.

LREF = 1290.3000 INCHES

BREF = 1290.3000 INCHES

SCALE = .0150 SCALE 42/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

CABT	.21803	.21607	.21081	.20349	.19775	.19574	.19570	.19742	.19552	.19152	.19354	00005
CAFT	.22457	.22420	.22601	.22977	.23341	.23515	.23333	.22999	.22386	.21851	.21276	-,00052
5	.44260	.44027	.43682	.43326	.43116	.43089	.42903	.42741	.41938	.41003	.45630	-,00057
5	.44268	.44033	.43692	.43321	.43043	.42985	.42830	.42658	.41848	.40913	.40532	00057
ð	.32904	.28891	.21955	.15787	.09429	.03470	02169	07770	13038	18623	21955	02474
3	82940	73102	55025	-,38681	22453	07192	.07649	.20911	.34579	.48375	. 59952	•06266
BETA	.00521	.09467	00159	00499	00122	\$6900.	.02239	.02453	.01978	.01265	.00455	.00392
A PHA	-11.185	666.6-	-7.586	-5.222	-2.858	537	1,791	4.977	6.382	8.683	10.954	GRADIENT
		1.291										_

XAC/L .372771 .396713 .422834 .414859 .600 .799 .901 .978 .578

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.000 RUDDER =

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PARAMETRIC DATA

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CA) 5 12 JUL 74		TABILATED SOURCE DATA, LARC 8FT667 (1A-41)	E DATA,	LARC BFT	667 (1A-41)				PAGE	921
		LRC 8 TPT 667 1A41		ग्रामाळ				(010900)	D) (13 MAY 74	2
GFFEFNCE DATA	Ž.						PAR	PARAMETRIC DATA	DATA	
SKEF = 2690.0050 SQ.FT. LREF = 1290.3050 IMCHES BREF = 1290.3050 IMCHES CAN F =	278.7 278.7 278.7	976.0000 INCHES .0000 INCHES 400.0000 INCHES	જે જે જે			BETA	# 2	000*	RWDER =	.000
	S. S.	51/ 0 RWL =	3.17		GRADIENT INTERVAL =	-5.00/	5.00			
•	;	2	_	3	3	5	CAFT	CABT	-	
HOM.	ALPHA 1: 53°	DEIA CR	. 61255	.37481	.16682	.16716	.04930	.11786	786	
BRC.	020-11-	_	. 52517	.31327	.16553	.16577	.05359	.11218	218	
	-6.621		41913	.25181	.16356	.16378	.05770	9	507	
15 3	4.372		30902	.18975	.16321	.16342	.06393	.09950	950	
(ida)	-2.322		22172	.14211	.16206	16231	.06852	08260.	38G	
CG9.	188		12961	.09323	.15809	.15850	.07074	2 6	9	
109	1.975	0 65900.	04017	.04592	.15055	15103	7690.	02190	901	
009	4.035		.04783	-,00120	.14042	14090	.06410	19971	200	
009	6.215		.14416	05481	.12723	12/2I.	.05546	200	3.5	
665	8.463		.24462	11079	11154		.04297	900	* 6	
665	10.527	75200.	.34542	16818	.09641	.09629	.03040	Ricon.	610	
	GRADIENT	.00528	.04241	02264	00271	00267	•00000•	DOX 0	S	
	RUN NO.	50/ 0 RN/L =	1.69		GRADIENT INTERVAL =	-5.00/	5.00			
	100	7.50		X	ð	2	CAFT	CABT	_	
		يو	58629	34820	.19428	.19479	.07178	.12301	201	
	677		-,48196	.28860	.18853	18908	.07322	.11586	586	
200	424		.39820	.24326	.17906	.17955	.07282	.10673	573	
CC.	306		29637	.18546	.17359	.17401	.07342	<u>.</u>	090	
862	-2.277		19499	.12823	.17006	.17050	.07552	.09497	£63.	
8	105		10191	.07691	.16447	16496	.07686	.08810	210	
008	1.970	•	-,00649	.02407	15801	15854	.07549	.08207	200	
008*	4.078		.09172	03081	.14923	14971	20,015	79770	79.7	
964.	6.171		19667	09052	14158	.14192	06449	1070.	90	
.799	6.321		.28955	14110	.1418/	34719	21400		35	
	10.413		.37327	18439	.14589	*20*1.	01000.	73600	744	
	GRADIENT	. 00318 .O	.04590	-,02553	00289	-,00088	*******	3		

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DATE 12	DATE 12 JUL 74		: ABULATI	: Bulatel Source Data, Larc 8ft667 (1A-41)	A, LARC SFT.	667 (IA-41	-			PAGE	121
			LRC 8	LRC 8 TPT 667 1A41	118101				(866010)	(13 MAY 74	2
	REFERENCE DATA	DATA						PAR	PARAMETRIC DATA	ATA	
SREF : LREF : BREF : SCALE :	2690,0000 50.FT. 1290,3000 INCHES 1290,3000 INCHES	. 2747 :	976.000 .000 400.000	976.0000 INCHES			BE:A	# *	.000 R	RUDGER =	
		RUN NO.	0 /67	RN/L = 1.99		GRADIENT INTERVAL =	-5.00/	5.00			
	MACH	ALPHA	BETA	ž	5	5	5	7.5	CABT		
	668.	-15.882	00724	62964	.38074	.21402	.21411	.09041	.12370	_	
	106.	-8.741	50791	50803	.30873	.20885	.20917	.09203	.11714	_	
	026°	-6.543	00995	39286	.24541	.20064	.20107	90060*	.11101		
	006°	-4.397	01058	28205	.17664	.19402	.19444	.08957	.10487		
	1906.	-2.246	95734	17382	.11489	.19074	.19120	.09212	9 0660.		
	00 6 *	127	.00158	06995	.05054	.18600	.18651	.09376	.09276		
	00 6°	1.961	.01343	.04399	00953	.18093	.18150	.09136	4 i060.		
	669*	4.211	.01767	.14453	06316	.17871	.17938	.09118	02830		
	950	6.214	.01499	.23557	11312	.17845	17901	.09229	.08672		
	900	8.365	99600*	.33676	17006	.18012	.18028	.09011	.09017		
	669.	10.536	00023	.41358	20726	.18615	.18646	.09136	.09510		
		GRADIENT	30 360	.04998	02818	00188	00186	.00011	00197		
		RUN NO.	0 /97	RN/L = 2.05		GRADIENT INTERVAL =	-5.00/	5.00			
		ALPHA	BETA	8	ð	5	2	75	CABT		
	_	-11.037	.00375	70161	.44555	.27849	.27901	.12770	.15131		
	.979	-8.875	00635	57739	.37374	.27662	.27660	.12899	.14761		
		-6.691	00917	44507	.29346	.27148	.27145	.13261	.13884		
		-4.518	00987	31075	.20 62	.26515	.26551	.13336	.13215		
		-2.374	00477	18753	.13589	.26264	.26311	.13757	.12555		
		200	.00488	07041	.06824	.25903	.25962	.13820	.12142		
		1.999	.01619	.05539	09652	.25666	.25738	.13688	.12050		
		4.187	.01911	.18288	08238	.25750	.25820	.13632	.12188		
		6.292	.01436	.29842	15103	.25708	.25769	.13321	.12448		
		8.474	.00162	.40523	21033	.25903	.26004	.13081	.12923		
		10.598	90722	.49836	25821	.25994	.26150	.13024	.13126		
	•	GRADIENT	.00362	.05648	03335	96000*-	00093	.00024	00117		

TABLLATED SOURCE DATA, LARC 8FT.-667 (1A-41)

CATE 12 JUL 74

PAGE 128

REFERENCE DATA

PARAMETRIC DATA

LRC 8 TPT 667 1A41 TIPLO1

976.0000 INCHES .0000 INCHES 450.0000 INCHES 2690.0000 54.FT. 1290.3000 INCHES 1290.3000 INCHES

DERP THRP

8 BETA

GRADIENT INTERWAL = -5.00/ 5.00

RN.1. = 2.11

0 /47

RUN NO.

RUDDER =

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(Bes010) (13 MAY 74)

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MC 1.201 1.202 1.203 1.204 1.204 1.204 1.201 1.2

CABT .14300 .13891 .12862 .12862 .11840 .11603 .11615 .11576 .11499 .11289

.19187 .18992 .19921 .19234 .1944 .19734 .19736 .19662 .18636 .18636 .18636

CAT .33487 .32883 .32883 .32896 .32096 .31764 .31740 .31133 .30638 .30038 .30038 .30038 .29686 -.00106

.33419 .32822 .32822 .32873 .31760 .31760 .31591 .31088 .30592 .30100 .29639

CLM .40694 .34318 .28139 .21268 .13175 .05846 .01014 .07615 -19166 -1911

ALPNA -11.149 -9.051 -6.712 -4.621 -2.444 -.226 1.259 1.231 6.304 6.454 10.635 6RADIENT

SAEF :: LAEF :: BREF :: SCALE ::

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CN -.65266 -.53932 -.42472 -.17594 -.05297 .06445 .18187 .28395 .39311 .49572 BETA -.02196 -.02363 -.02713 -.02713 -.02460 -.02460 -.01677 -.01636 -.01636 -.01636

.598 .600 .899 .979

CATE 12 . A. 74	2 T.		TABLLATE	D SOURCE DA	TA, LARC OF	TABLLATED SOURCE DATA, LARC 8FT667 (1A-41)			BAGE	129
			8 257	LRC 8 TPT 667 IA41	1 115101				(BQ6511) (13 MAY 74	22
	REFERENCE DATA	CATA						PAR	PARAMETRIC DATA	
MEGF = BREF = SCALE =	2690.0000 SQ.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE	\$ 7986 : 2986 : 2986	976.005 .000.	976.00C0 INCHES .000G INCHES 400.000G INCHES			Ą	ALPHA =	.000 RUDDER =	.000
		RUN NO.	0 /95	RN/L = 3	3.18 GRADIE	GRADIENT INTERVAL =	-5.00/	9.00		
	H CAN	BETA	5	Š	មី	5	5	CAFT	CABT	
	609	688.6-	.38741	14637	.06859	.18314	.18395	.07133	.11-53	
	659	-8.694	.34426		.06204	.18113	.18193	.97244	.10948	
	650	-6.618	.26642	10565	.04916	.17713	.17780	.07447	.10333	
	. 600	-4.406	.18321		.03412	.16985	17021	.07467	.09554	
	. 655	-2.208	.59944		.01861	.16366	.16383	.07374	.09010	
	.599	052	.01838		.00437	.15916	.15942	.07153	06790.	
	959.	2.123	07820		01339	.15912	.15905	.07186	.08719	
	. 6 00	4.359	16623		-,52962	.16124	.16149	.07137	.09012	
	.599	6.527	25217		04551	.16226	.16254	.06702	.09552	
	.659	8.828	33657	.13248	05931	.16416	.16425	.0594	.10476	
	609	9.836	37517	.14455	06498	.16452	.16456	.0563&	.10818	
		GRADIENT	04010	.01660	00730	••0000	00161	00039	00063	
		RUN NO.	93/ 0	RV.L = 1.89		GRADIENT INTERVAL = -5.00/		5.00		
	3	AFTA	5	Š	é	5	5	CAFT	CABT	
	6 2.	-10.687	.43318	16574	.07667	.19786	.19826	.07974	.11852	
	66.	-8.566	.35916	13798	.06348	.19133	.19187	.08110	.11077	
	799	-6.491	.27030	11063	.05053	.18518	.18567	.08212	.10355	
	008	4.297	.18574	07854	.03579	.17902	.17934	.08227	70760.	
	.799	-2.085	76960.	04115	.01892	.17210	.17230	99640.	.09264	
	.799	020	.01390	00675	.00402	.16598	.16638	.0770	.08930	
	.799	2.100	07872	.03548	01304	.16595	.16632	.07691	.08941	
	.799	4.259	17475	.07746	.05151	16904	.16919	.07596	.09324	
	.79	6.463	26243	.11320	04793	.16937	.16942	.07228	.09714	
	.79	8.573	34470	.14099	06017	12171.	.17117	.06748	.10369	
	.799	10.702	42764	.16980	07570	.17477	.17459	.05952	11508	
		GRACIENT	04210	.01825	00782	00123	00123	00072	00051	

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LRC 8 TPT 667 1A41 T1P1O1

(B@0011) (13 MAY 74)

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.000 RUDDER = PARAMETRIC DATA ALPHA = 976.0000 INCHES .0000 INCHES 400.0000 INCHES 43 44 4 24 44 4 24 44 4 REFERENCE DATA SKEF = 2690,0000 SQ.FT. LREF = 1290,3000 INCHES BREF = 1290,3000 INCHES SCALE = .0150 SCALE

	GN NO.	94/ 0	RNA. = 1.99	GRADIENT	INTERVAL =	-5.00/	5.00	
₩.	BETA	5	CYN	ಕ		3	CAFT	CABT
<u>8</u>	-10.637	.47120	18969	.08475		.22567	.09840	12721.
206.	-8.684	.38288	15999	.07055	.21635	.21861	.09885	11977
200	-6.528	.29440	12768	.05540	_	.21097	.09962	.11135
906	-4.386	.20425	09192	.03939		20302	.09846	.10456
.89	-2.196	.10723	D4848	.02086		.19457	.09514	.09943
6 0	008	.01088	00520	.00318	_	.18729	.09348	.09381
306.	2.162	09275	.04520	01505		.18861	.09371	.09491
200	4.341	19245	.09151	03464		.19243	.09294	.09952
669•	6.516	28584	.12942	05166		.19618	.08999	.10619
906	8.707	37959	.16526	06783		20006	.08645	.11361
ğ	10.844	46795	.19416	08139		.20347	.07933	.12414
	GRADIENT	04554	.02111	00843	Ī	00125	00057	00067

53/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.

CABT	CAFT	CAT	5	8	N.	ځ	BETA	W C
	9.00	-5.00/	INTERVAL =	GRADIENT	RNAL = 2.11	95/0	RUN NO.	
00027	-,00066	-,00093	00092	00928	.01905	04358	GRADIENT	
.16022	.11949	.2797.0	.28004	09426	1991.	48770	10.986	.979
.14851	.12839	.27690	.27713	07646	.16256	38371	8.766	.978
.14028	.13342	.27371	.27389	05891	.12570	28634	6.581	.980
13201	.13576	.26777	.26767	03884	.08554	18822	4.363	.98ū
.12288	.13632	.25920	.25858	01679	.04051	0877	2.183	.979
.12142	.13718	.25860	.25801	5005	00227	.00758	 900:-	.979
.12574	.13811	.26385	.26343	.02224	04061	.09936	-2.201	980
.13357	.14205	.27562	.27528	.04298	08191	.19410	4.364	086.
.14359	.14261	.28619	.28598	.06350	12352	.29366	-6.573	.981
.15297	.14306	.29603	.29584	.08100	15939	3895	-8.738	.981
.15892	.13972	.29864	.29830	.09679	19233	.48167	-10.808	.979
CABT	2	5	ಶ	ಕ	E	Շ	BETA	Ę

CABT	.14602	.13721	.12787	.12000	.11774	.11985	.12198	.12785	.13276	-,00054
CAFT	.20162	27002.	.19671	19707	.19668	.19691	.19421	.19193	.18757	00041
5	.34764	.33793	.32657	.31707	.31442	.31677	.31619	.31979	.32033	00096
5	.34763	.33763	.32623	.31694	.31420	.31656	.31641	.32018	.32081	00091
ਵੱ	.07773	.06085	.04148	.02186	.00276	01735	03674	05676	07400	00689
Š	13306	10255	06779	03321	00013	.03435	.06858	.10377	.13413	.01547
5	36896	.27725	.18342	.09262	.00476	08327	17269	27029	36371	04037
BETA	-8.788	-6.601	-4.390	-2.231	200.	2.211	4.387	6.800	8.894	GRESSENT
	_	1.201								



TABULATED SOURCE DATA, LARC 8FT.-667 (1A-41) CATE 12 JUL 74

LRC 8 TPT 667 1A41 T1F101

PAGE 131

PARAMETRIC DATA

(B98011) (13 MAY 74)

REFERENCE DATA

.000 RUDDER = ALPHA =

99

2695.5050 SQ.FT. 1295.3050 INCHES 1295.3050 INCHES .0155 SFALE SECT :: LREF :: BREF :: SCALE ::

976.6099 INCHES .0509 INCHES 400.0009 INCHES

YACAL .414038 .433455 .463596 .437103

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TABULATED SOURCE DATA, LARC BFT.-667 (1A-41)

LRC 8 TPT 667 1A41 TIP1

(BQBD12) (13 MAY 74)

PAGE 132

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES YARP Zarp 2695.00C) 50.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

SREF :: LREF :: BREF :: SCALE ::

000 BETA

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PARAMETRIC DATA

. 900

RN/L = 3.18 GRADIENT INTERVAL = 61/0 RUN NO.

CABT ..04914 ..04914 ..04914 ..04914 ..03986 ..03693 ..03419 ..03244 ..03196 ..03186 ..02682 ..02635 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..00070 ..04914 ..00070 ..00070 ..00070 ..040070 ..040070 ..040070 ..040070 ..040070 ..040070 ..040070 ..040070 ..040070 ..040070 ..040070 ..00000 ..0000 ..0000 ..000 ..000 ..0000 ..0000 ..0000 ..0000 ..000 ..000 ..0000 ..0000 ..0000 CAFT .04412 .04302 .04170 .04186 .04183 .04193 .04107 .04023 .03679 5.8 -5.00/ CAT ..09326 ..08113 ..08113 ..08114 ..07819 ..07819 ..07456 ..07382 ..07456 ..07382 ..06725 ..06725 ..06726 ..00070 CA ..08955 ..08362 ..08362 ..07840 ..07857 ..07359 ..07172 ..07172 ..07172 ..06744 ..06578 ..06370 ..00062 CN -.11356 -.09396 -.05490 -.05490 -.03129 -.01761 -.01761 .013927 .03927 .05678 BETA -.00968 -.00739 -.00739 -.00269 -.004802 .00486 .00263 .00268 .00098 ALPA -10.315 -0.232 -6.143 -4.146 -2.087 -.027 -.027 -.027 6.129 6.120 8.194 10.238 GRADIENT #67. \$93. \$94. \$95.

C9 " 200

CABT	.05665	.05242	.04615	04264	72650	.03870	90860	.03485	.03547	.0369A	03935	00562
Ş	.04470	.04361	.04305	.04303	.04329	.04370	.04296	.04210	.04054	03819	.03536	00011
2	.10135	.09603	.08920	.08567	.08257	.08240	.58105	.07695	.07602	71570	.07472	00093
3	.09751	.09259	.08653	.08327	.08049	.08066	.07925	.07514	.07416	.07354	.07310	00096
ð	.00526	.00765	.01299	.01589	.01874	.02089	.02215	.02346	.02468	.02773	.02992	16000
3	11719	09682	08240	06466	04760	02759	00790	.01334	.03450	.05392	.07540	29600*
BETA	00720	00731	00693	00407	00009	.00284	.00320	6000.	.00076	.05120	.00136	•00003
ALPHA	-10.193	-8.183	-6.155	-4.067	-2.101	011	1.986	4.566	6.076	960.8	10.:79	GRADIFNT
	•	_	_	_	_	_	_	_	_	799	_	

-5.00/ 5.00

GRADIENT INTERVAL

RWL = 1.90

RUN NO.

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CATE 12 JUL 74	14 74		TABULATE	IABLLATE SOURCE DATA, LARC 8FT667 (1A-41)	LARC 8FT	10-41)				PAGE	133
			LRC 8 T	LRC 8 TPT 667 1A4:	1161				(848012)	(15 MAY 74)	~ 2
	REFERFACE DATA	ITA I						PAR	PARAMETRIC DATA	DATA	
100	2690.0056 SQ.FT. 1290.3500 INCHES	XXRP =	976.0000 INCHES	INCHES				BE1A =	000	RUDDER =	.000
BREF = SCALE =	1290.3500 INCHES .0150 SCALE		400.000	INCHES							
		RUN NO.	28/ G	RN/L = 1.99		GRADIENT INTERVAL =	-5.00/	5.00			
	2542	V Pr	RETA	ž	Ę,	5	CAT	CAFT	CABT		
		250	- Great	11882	.00267	.11245	11550	.05341	290.	8	
	660	***	F. 7.7.39		.05371	10597	.10962	.05206	.056	26	
	36	141.0	402.00	10770	.00515	10030	.10259	.05156	.051	8	
	36	2010	1000		27700	00260	09710	.05099	.046	21	
	660.					66300	40400	48160	245	9	

999

.04539 .04212 .04061 .04139 .04374 .04798 CABT .07027 .06276 .05698 .05698 .0541 .04953 .05082 .05441 .05715 07460 .07460 .07348 .07206 .07206 .07002 .06019 .06692 .06413 .06413 .09707 .09348 .09941 .08917 .08910 .08811 CAT ...14487 ...15292 ...12904 ...12904 ...11955 ...11955 ...11955 ...11866 ...11855 ...11866 .09533 .09148 .06782 .08661 .08662 .08620 .08615 GRADIENT INTERVAL CA 14246 13396 12738 12739 12739 11649 11649 11611 11662 11612 11662 11662 11662 11663 11663 CLM - .00876 - .00679 - .00679 - .00683 - .00286 .00756 .00756 .00757 .01824 .02282 .02282 .00189 .01045 .01045 .01116 .01384 .01738 .02088 .02370 CN -.11900 -.00165 -.06937 -.02548 -.00481 .01438 .03304 .03176 .0738 BETA -.00758 -.00814 -.00817 -.00817 -.00817 -.00818 -.00068 .0224 .00463 .00104 .00053 .00066 RUN NO. ALPM -10.312 -6.187 -6.203 -4.137 -2.105 -042 2.042 2.042 2.042 2.042 2.042 2.042 2.042 2.042 6.132 6.132 6.132 6.132 -2.386 -2.386 -2.34 2.3514 4.363 6.117 8.238 19.207 #O#4 1980

DATE 12 JUL 74

(13 MAY 74)

(B.48012)

REFERENCE DATA

976.0000 INCHES .COOO INCHES 490.0000 INCHES 2690.0000 Sa.FT. 1290.3500 INCHES 1290.3000 INCHES .0150 SCALE SCALE ::

PARAMETRIC DATA

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.000 RUDDER = BETA

GRADIENT INTERVAL = -5.00/ 5.00 RN.L = 2.10

CABT .06150 .05836 .05836 .05369 .04939 .04873 .04998 .05403 1138 11174 111082 110836 110836 110881 110778 110778 110390 110390 .17506 .17506 .17506 .16625 .16625 .15625 .15620 .15617 .15617 CA .17429 .16926 .16548 .15953 .15668 .15511 .15454 .15454 .15454 .15454 .15454 .15454 .15454 ..01502 ...01502 ...00738 ...00738 ...00409 ...01435 .01435 .01829 .02890 CN -.12126 -.09693 -.09693 -.02706 -.00646 -.0177 .03382 .05503 .07947 .10533 .01000 BETA -.00782 -.00842 -.00863 -.00561 -.00563 -.00505 -.00505 -.00501 -.00510 ALPHA -10.357 -6.262 -6.242 -2.118 -.043 -.043 6.147 RUN NO. 8.244 10.292 6RADIENT MACA 11.201 11.202 11.202 11.203 10.203 10.203 10.203 10.203 10.203 10.203 10.203 10.203 10.2

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XACAL -.241528 -.094673 -.196444 -.222927 88. 88. 88. 105. 105.

-567 (IA-41)
" SOURCE DATA, LARC BF
TABLETE
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CAL

(13 MAY 74 (848513) LRC 8 "PT 667 IA41 TIP1

RUDCER = PARAMETRIC DATA 500 A. HA 976.0000 INCHES .0000 INCHES 400.0000 INCHES 43847 43847 43847 REFERENCE DATA 2695.0000 SQ.FT. 1295.3005 INCHES 1295.3005 INCHES .5155 SCALE SAEF :: LAFF :: BAFF :: SCALE ::

.951

EASE 135

CABT .04404 .01904 .01904 .01901 .01901 .01909 .01900 .019 CABT .05109 .04166 .04166 .04003 .03763 .03768 .04508 .04501 .05317 CAFT .06226 .05866 .05876 .04637 .04637 .03835 .03902 .03902 .03903 .03904 .02513 -5.00/ .10631 .09770 .09753 .09653 .0757 .0757 .0757 .06768 .0658 .0658 GRADIENT INTERVAL = GRADIENT INTERVAL = CA 10292 .09455 .09454 .07674 .07639 .06981 .0658 .06599 .06599 CBL .00136 .00097 .00097 .00097 .00010 .00010 .00010 .00010 .00010 .00010 .00010 .00010 .00011 RN/L = 3.17 RN/L = 1.89 CrN .09890 .01031 .00937 .00616 .00616 .00383 .00062 -.00436 -.00436 .11172 .08323 .05937 .03583 .03583 .015647 .02584 .06739 .06739 .06739 0 /99 RUN NO. PETA -10.330 -0.251 -6.196 -2.105 -2.105 -2.105 2.105 8.120 6.193 0.250 10.320 6.193 0.250 6.193 0.250

.07055 .07055 .06617 .05608 .05405 .03827 .03827 .02770 .05270 .12164 .11214 .11214 .10250 .09443 .08584 .07595 .07596 .07278 .06624 .06657 CA .11865 .10944 .09910 .09210 .09211 .07411 .07516 .06653 .06639 .06248 CBL .00140 .05108 .05108 .05073 .05073 .05071 .050011 .050011 .050031 .050032 CYN .00373 .00302 .00281 .00286 .00326 .00276 .00114 ..00111 C7 .12101 .09441 .06905 .04370 .02154 .02266 -.02534 .07027 .07027 .12536 BETA -10.253 -6.180 -6.141 -6.141 -2.038 -2.038 6.129 6.129 6.129 6.129 6.189

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CATE 12 JUL 74	•		TABULATED	SOURCE DATA	, LARC BFT.	tabulated source data, larc 8ft667 (IA-41)				Ž
			LRC 8 T	LRC 8 TPT 667 1A41	าเค				(Bee013)	13 #
	REFERENCE DATA	ATA						PAR	PARANETRIC DATA	
							*	. 418	נייט פונגנים	9
# 1	2690.0000 Sa.FT.	H H	976.0000 INCHES				ŧ			·
URCF = 1630. BREF = 1230. SCALE =	1230.3050 INCHES 1230.3050 INCHES .0150 SCALE		405.0000 INCHES	INCHES						
		RUN NO.	0 /39	RN/L = 1.99		GRADIENT INTERVAL =	-5.00/	5.00		
		06.43	2	3	ē	5	2	CAFT	CABT	
	5	-17 201	13063	91100	.00151	13101	.13337	.07504	.05633	
		0.236	10164	00000	.00113	.12255	.12480	.07049	.05431	
		6.176	07538	90000	7,000	.11370	.11575	.06657	.04918	
		11:4	.05083	05024	.00047	.10389	.10580	.06984	.04496	
	5	-2.557	5355	- 0000	.00013	.09593	£7760°	.05557	.54217	
	66	014	00031	.00146	00013	.09241	.09446	.05242	.04205	
	505	2.549	92577	.09257	00032	.08771	.08959	.04688	.04270	
	106	4.114	05101	.00275	00061	.08508	.08716	.04258	.04458	
	668	6.172	07725	.05257	-,00098	.08489	.08729	.03713	.05017	
	556	8.214	17527	.00261	00140	.08314	.08555	.03135	.05425	
	5	10.301	13485	50203	00163	96080.	.08352	.02444	.05908	
		GRACIENT	01245	.00043	00013	-,00223	00221	00225	05531	
		RUN NO.	0/8	RN/L = 2.05		GRADIENT INTERVAL =	-5.50/	9.00		
	2	BETA	ځ	Š	ð	3	7	CFT	CABT	
		-10.363	13522	.00942	.00151	16098	16300	.09236	.07064	
		-8.282	10484	.00662	71100.	.15316	.15521	.08931	.06589	
	8	-6.209	26770	.00417	.00083	.14292	. 4496	.58443	.06053	
		4.163	.05186	4500.	.00048	.13211	13434	.07874	.05560	
		-2.968	.02692	.00121	.00013	.12390	.12607	.07461	.05146	
		,00°-	00029	.00153	00011	.11825	.12156	.07132	.04974	
		2.069	02653	.00136	00036	.11492	.11739	.06674	.05065	
		4.124	05239	.00040	00063	.11431	.11677	.06209	.05468	
		6.181	07805	00153	00102	.11445	.11705	.05645	.06069	
		8.268	10705	00392	00141	.11393	.11622	1000%	.06556	
	676	15.349	13792	00652	00176	.11252	.11449	.04426	.07023	
		GRADIENT	01267	00024	00013	00216	02212	00199	00013	

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(13 MAY 74) PAGE 136

TABLEATED SOURCE DATA, LARC 8F7.-667 (TA-4;)

PAGE 137

LRC 8 TFT 667 IA41 T1P1

(13 HAY 74) (Bee013)

PARAMETRIC DATA

REP-EFENCE DATA

976.0050 INCHES .0000 INCHES 400.0000 INCHES YPEP YPEP 2650,0000 50,77. 1290,3000 INCHTS 1290,3000 INCHES 0150 SCALE

.050 RUDDER = ALPA

80.

RN/L = 2.11

CAFT .12840 .12840 .12884 .12100 .11596 .11596 .110946 .10612 .10291 .09737 .09091 .09630 ..00157 GRADIENT INTERVAL = -5.00/ 5.00 CAT .19244 .18491 .17694 .15846 .15946 .15596 .15545 .15545 .15299 .100157 CYN .01704 .01376 .01376 .00137 .00417 .00306 ..00665 ..00665 ..01665 CY .13710 .10477 .07516 .04895 .02552 .02552 .02215 .04713 -10612 -14122 -14122 BETA -10.426 -8.337 -6.246 -4.155 -2.105 -.006 2.002 4.153 6.227 6.227 10.422 64ADIENT ### 1.202 1.20

YACAL -.003514 -.032645 .034466 -.018824 -.156804 . 980 . 200 . 980 . 200 . 200

24TE 12 11L 74

7 III 347	. 22		TABULATE	SOURCE	DATA, 1	ARC BFT	TABILATED SOURCE DATA, LARC 8FT667 (1A-41)				PAGC	136
1	: {				i	1				(800014)	1 (13 MAY 74	~ 2
			25	LRC 8 TPT 667 IA41	F 141	11 P 1 5 1 P 2					.	
	DEFENTACE CATA	4							PAR	PARAMETRIC DATA	DATA	
											- 13001	
	2690.0000 50.FT. 1290.3000 INCHES 1290.3000 INCHES .0150.5CALE	MARP :: ZYRP ::	976.0000 INCHES .0000 INCHES 400.0000 INCHES	.0000 INCHES .0000 INCHES .0000 INCHES				R	# #	990.	* COLE * .	8
		RUN NO.	11/0	RNA. =	3.17	GRADIENT	GRADIENT INTERVAL =	-5.00/	9.00			
				į		3	2	747	CAFT	Cet		
		ALPIA	BETA	5	;	1	79057	4 77162	.05682	.113	083	
	966.	-10.765	00395	36289	5	.04158	7001	17057	18118	100	G	
	586	-6.623	00478	29379	g	.03516	10001	1000	Ceran	907	2	
	666	-6.483	00130	23170	2	.03332	60,01	10601	06747		K	
	\$	4.360	.00198	17418	18	.03287	.16707	1661	49040	71990		
	905	-2.210	.00678	110	2	.02983	.16683	16881	10000	960		
	605	076	.01081	04603	8	.02734	.16666	.16841	201793	5	ī	
		A7U-6	71010	.022	39	.02393	.16740	16891	12210		2 2	
	666	046 7	0.00535	680	65	.02051	.16679	.16818	.16940		2	
	re:	478	70500	15470	2	.01706	.16676	.16813	.06676	10136	90	
			7.0500	212	99	.01442	.16752	16900	.06132	0.	99	
	_	979	AST	20065	. S	00600	.16748	.16909	.05554	=======================================	155	
	06C.	SP. CAS	96000	03078		00143	00000	•00000	•00056	9	3	
		ON MO	0 /02	87. *	1.89	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00			
	•		;				i	;		197		
	7	A: Pad	BETA	3		3	ರ	5	3		_ :	
		140 ABA	(M351	37959	25	.05274	.18136	.18310	4/99O.	110	ž	
	en:		AUFOU -	30389	8	.04451	.18059	.18233	.07062		5	
	56.	1	A7.00	- 2384	7	.04004	.17969	.18140	.07410	01.	5	
	86.	910.9	1000	176	7	.03397	.17857	18020	27770.	 5	676	
	66.	797.	13000-	0.4870	. 2	02885	mu.	11927	.08136	8	3	
	8.	-2.178	ceim.	94440	n a	02471	17675	17798	.08264	8	335	
	2	***		91680	3 4	.02138	.17836	.17930	.08251	Ş.	579	
	. 796	2.074	.0000	9	2 5	97510	17698	.17776	.07931	80.	75	
	. 78	4.161	* 6000	1676	i K	70700	17749	.17820	.07566	.102	35	
	. 198	6,279	•0000	9kkeo		26200	.17699	.17779	.06985	101	794	
		8.374	-02/CO-			2020	17669	.17749	.06397	.11352	352	
	.799	10.502	04200	C111C.		00226	00012	00023	.00020	00	243	
		GRADIENI	senn.	5								

(B@8514) LRC 8 TPT 667 IA41 TIP1S1P2

£03 e JEGER = PARAMETEIC CATA 199. 9E 7. 976.0050 INCHES .0000 INCHES 405.0000 INCHES REFERENCE DATA 2690,0000 59.FT. 1290,3000 INCHES 1290,3000 INCHES .0150 36ALE

SALE STATE

. (2321 . (2321 . 11895 . 11866 . 15728 . 15195 . 15195 . 11177 . 11177 . 11517 . 11513 .07724 .07724 .08104 .08104 .08154 .09164 .08104 .08106 .08106 .08106 8.03 RACL = 1.99 GRADIENT INTERVAL = -5.00/ .20044 .19993 .199842 .19519 .19424 .19583 .19564 .19537 .00012 CA .19902 .19855 .19715 .19365 .19363 .19611 .19570 .19596 .19596 .19596 .05712 .05712 .04658 .01965 .01503 .01503 .00768 .01361 CN -.39981 -.31590 -.24618 -.15054 -.03710 -.03710 -.03710 -.1904 -.18629 -.25857 -.3423. -.05496 -.05496 -.05314 -.05334 -.05151 -.05152 -.05152 -.05152 -.05152 -.05152 ALPA -15.702 -8.541 -6.455 -2.206 -.581 2.566 4.214 6.326 8.431 19.585 35. NO.

.13501 .13501 .12923 .12371 .11712 .11712 .11175 .11541 .12601 .13461 .09707 .10354 .10354 .11337 .11516 .11751 .11751 .11751 .10938 .10367 .09496 .23208 .23377 .23335 .23349 .22765 .22908 .22925 .23124 .23168 .23168 CA .23063 .23150 .23269 .22269 .22269 .22269 .22269 .22269 .22931 .229067 .23067 .00008 CLM .02332 .01383 .01305 .01252 .00696 .00007 .002867 -01256 -01519 CN -.39158 -.50105 -.22574 -.19979 -.019779 -.01978 .23265 .27245 .36561 .03363 BETA -.05131 -.0037 -.0027 -.002131 .00384 .00388 .00388 .00388 .00388 ALPA -10.823 -8.654 -6.503 -4.351 -2.080 2.080 2.086 4.213 6.364 8.510 10.687

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SPADIENT INTERVAL

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LRC 8 TPT 667 1A41 T1P1S1P2

(B@8014) (13 MAY 74)

PARAMETRIC DATA

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RUDDER =

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BETA

REFERENCE DATA

976,0000 INCHES .0000 INCHES 400,0000 INCHES 2690.0000 54.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

GRADIENT INTERVAL =

XMC.A. .046344 .066815 .073820 .059714 .058737 .599 .799 .901 .960 1.200

72 311 60 36.75		TABULATED	SOURCE DATA	TABULATED SOURCE DATA, LARC 8FT667 (1A-41)	667 (IA-41)			PAGE	141
		LAC & TP	LAC 8 TPT 667 1441 TIPISIP2	11715162				(BQ8515) (13 MAY 74	17 74 J
							PAA	PADAMETRIC DATA	
REFERENCE DATA	ITA								C
SREF = 2690,0959 SQ.FT.	1 dist.	976.0000 INCHES	INCHES			AL PHA	# *	.000 RUDER =	000
1295.3555 5155	2 AKP ::	400.0000 INCHES	INCHES						
	RUN NO.	76/ G R	RN/L = 3.18		GRADIENT INTERVAL =	-5.00/	8.00		
	1	č	\$	ฮี	5	CAT	CAFT	CABT	
	10.246	10358	. 99015	.00016	.17786	17991	.06830	11161	
100.	952.8-	.08167	50059	.00000	.17433	.17598	.05924	10074	
67 W	-6.071	.06053	00158	00025	.17677	.17212	67 60U.	10001	
665.	-4.599	.04100	59251	7500	.16863	90001.	00000	.09842	
985.	-1.885	17610.	50188	55152	.16//6	16003	.07222	.09682	
665.	600	62000	-,00064	# 200° -	16662	16856	.07364	.09492	
665.	2.062	02133	86000	יייטייי	16722	.16919	.07486	.09433	
665*	4.113	04279	33700	10000	16975	17149	.07673	.09476	
.599	6.161	06541	00000	0000	17384	.17546	57912	.09634	
039°	8.255	0/980-	10000 F	26000	.17751	.17916	.58184	.09732	
665.	10.233 GRACIENT	01024	.00055	.05011	00019	00009	.00066	00075	
	RUN NO.	75/ O R	RN/L = 1.89		GRADIENT INTERVAL =	-5.00/	5.00		
		•	•	ē	5	5	CAFT	CABT	
#O#	BETA	ל ל	CTN	100	18824	18910	.07641	.11269	
308.	-10.210	3011.	61900	100.00	18369	.18432	.07857	.10575	
000.	-8.093	,0190.	יים מאלינות יי	00118	118071	.18134	02620.	10214	
200		1477	09520	00128	.17854	.17930	.07944	.09986	
	2010	02516	00351	00128	.17686	.17785	.07966	.09819	
	660.	.00181	00105	00086	.17657	11/1/2	70200	27.600	
000	2.038	02174	.00164	00015	.17642	17025	.0855B	57260.	
609.	4.239	04603	.00371	90000	1967	18081	.08719	.09362	
008.	6.152	97080	99070		1844	18455	.09015	.09440	
209.	8.148	09636	0000 0000	53.00	18719	.18856	.09219	.09637	
	10.247	12434	11100.	.00024	-,09017	-,00011	62000.	06000	
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LRC & TPT 667 1A41 T1P151P2

(Beed15) (13 MAY 74)

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.000 RUDDER =

ALPHA =

PARAMETRIC DATA

REFERENCE DATA

976.0000 INCHES . 0000 INCHES SREF = 2690.0000 SQ.FT. LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0150 SCALE

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	7 Y 7 W 3
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INCHES	
400.000 INCHES	
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<u>.</u>	

	RUN NO.	74/ 0	RN/L = 1.99	GRADIENT	INTERVAL =	-5.00/	95.6	
		į	3		5	5	C.	CABT
₹	META	5	E .		90690	9071 S	.naga4	12031
669	-10.303	.13076	00047		60003*		2000	41.500
ě	225	10444	0842		.20472	20403	91690	
106		03640	002.00		19966	.19979	.08958	11021
86.	3000	2000	60.00		FREE	19658	.08948	.10710
500	-3.984	.05167	- 10001		200		00000	40404
	080	Cocco	- 00383		19299	14081	36600	
669.	9CK*1-	• UC 033			10282	19331	.09192	.10139
006	80.	.00103	0000		3000	403 66	17.200	Noon?
	250	L MAKA	.00382		19298	18320	* 200	
206.	200		00000		19511	.19563	.09623	.09940
8	4.101	Zenen*-	9990	10100	10015	10877	09929	.09941
106	6.195	07708	ecent.		10010	2000	40469	1007
8	A 25.4	-,10539	00052		8c102.	- KUX-	00101	
• 633			7404		20463	.20590	10401	10189
Š	10.256	-,13540	0010		0000	annon -	PATICAL .	00097
	GRADIENT	01269	2/100		00016			

	CABT .13686 .13173 .13173 .11908 .11908 .10947 .11017 .11018 .11018
9.00	
-5.00/	CAT .24452 .24452 .23682 .23358 .23033 .22689 .23006 .23629 .23629 .24639 .2469400007
INTERML =	CA .2448 .2448 .23591 .23390 .22998 .22998 .22975 .23967 .24001 .24001 .2421900007
GRADIENT	CBL 00226 00204 00182 0017 00182 .00212 .00235 .00231
RIVL = 2.04	CYN - 01175 - 01096 - 01090 - 00657 - 00602 - 01090 - 01379 - 00223
3/0	CY .14513 .11456 .08606 .05636 .03018 -02949 -05809 -11717 -114861
RUN NO.	BETA -10.299 -6.143 -6.143 -2.003 2.061 4.149 6.171 8.271 6.201 10.301 64ADIENT
	MCH 678. 678. 698. 698. 698. 678. 878.

PAGE 143

LRC & TPT 667 1A41 TIP151P2

REFERENCE DATA

(13 MAY 74) PARAMETRIC DATA (848015)

> *76.0000 INCHES .0000 INCHES 400.0000 INCHES YARP YARP 2690.0000 53.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

RUDDER = 8 AL PHA

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GRADIENT INTERVAL = -5.00/ 5.00 RICL .. RGN NO.

.13410 .1245 .1272 .1273 .1237 .11323 .11323 .11986 .11986 .110985 .16122 .16172 .15935 .15935 .15934 .16117 .16774 .17655 .16120 .16273 .29532 .29116 .28655 .28655 .28330 .29126 .27966 .27966 .29105 .29105 .29519 .29099 .28627 .28627 .28063 .27902 .29053 .29064 .29064 .29069 CBL -.00231 -.00185 -.00132 -.00132 -.000132 -.000132 -.000132 -.000132 -.000132 -.000132 -.00033 CYN
-.00198
-.00327
-.00538
-.00428
-.00428
-.0043
-.00534
-.00535 C7 .14579 .11522 .08637 .03615 .03016 .03016 .02826 .05877 .08776 .11745 BETA -10.381 -6.323 -6.176 -4.136 -2.047 2.071 2.071 2.071 6.249 6.249 6.275 6.249 MG4 11.201 11.20

7ACAL .054081 .097941 .135173 .155625 .601 .600 .800 .899 .979

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CATE 12 JUL 74

LRC 8 TPT 667 1A41 TIP1S1P201

(Beedig) (13 MAY 74)

990

5.000 RUDDER =

BETA

PARAMETRIC DATA

REPERENCE DATA

SREF = 2690,0000 SQ.FT. 1048P = 976,0000 INCHES LREF = 1290,3000 INCHES 2MRP = .0000 INCHES BREF = 1290,3000 INCHES 2MRP = .400,0000 INCHES SCALE = .0150 SCALE

5.00
-5.00/
GRADIENT INTERVAL =
3.17
RNL =
81/0
RUN NO.

CAST .19446 .18645 .18645 .17563 .16618 .16453 .16534 .16539 .16454 .16539 .16454 .16539 .1645000066
.07527 .08337 .09147 .09760 .10150 .10303 .09259 .06205 .06884 .05542
CAT
26940 27130 27130 27130 27138 26919 26245 26245 25524 27320 21760
.19274 .13977 .07271 .02211 .02211 .02389 .10444 .14531 .16595 .22797
CN - 60146 - 65595 - 51290 - 58367 - 25871 - 14188 - 02559 0.09825 - 22648 - 49376 - 05253
8ETA 5.29994 5.3962 5.31018 5.3557 5.4559 5.4611 5.4593 5.41030 5.37524 5.3564
ALPAA -11.970 -9.716 -7.390 -5.170 -6.38 1.628 3.920 6.262 6.262 6.520 10.751
400 499 499 499 499 498 499 499 498 498

RUN NO. 80/ 0 RWL = 1.89 GRADIENT INTERWL = -5.00/ 5.00

CABT	.19347	.18639	.17943	.17193	.16624	.16267	.16045	.16237	.16486	.16593	.16661	07112
CAFT	.1001.	.10557	.10969	.11584	.11817	.11944	.11352	.10645	.10566	.09614	.09571	00106
5	.29424	.29196	.28912	.28777	.28441	.28211	.27398	.26883	.26552	.26207	.26232	00218
	.29449											
3	.16091	.09882	.04358	00704	05164	09446	13592	18081	22529	27489	32518	01945
3	77384	62069	47903	34811	22732	11002	78700.	.14172	.26557	.39568	. 52123	.05474
BETA	5.20823	5.25342	5.28341	5,30589	5.32133	5.33637	5.34063	5.33141	5.31327	5.28265	5.25655	.00315
ALPHA	-11.564	-9.300	-7.035	4.874	-2.635	50	1.745	4.034	6.130	8.339	1P.518	GRADIENT
	200											

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LEC 8 TPT 667 1A41 11P1S1P201

CATE 12 JUL 74

(Eqedis) (13 MAY 74)

· (aropar)

PARAMETRIC DATA

8 5.000 RUDDER = 5.09 SRADIENT INTERVAL = 976.0000 INCHES .0000 INCHES 400.0000 INCHES ACFERENCE DATA 2690.0000 54.FT. 1290.3000 INCHES 1290.3000 INCHES .0150 SCALE

SREF :: LREF :: BREF :: SCALE ::

MCH ALPHA BETA CN CLM CAT CAT CAFT CABT

-900 -11.006 5.29382 -.81420 .15756 .32659 .32654 .12254 .22400

-900 -11.006 5.29382 -.81420 .15756 .32659 .32654 .12254 .22400

-900 -11.006 5.29382 -.64967 .06349 .32377 .32757 .12778 .19579

-901 -7.254 5.36765 -.47927 .01549 .32141 .32122 .13282 .16840

-901 -5.013 5.39571 -.33123 -.04479 .32140 .32199 .13790 .18319

-901 -5.013 5.39571 -.19368 -.09656 .31929 .31910 .14028 .17683

-900 -.747 5.39631 -.19368 .-19656 .31929 .31910 .14028 .17683

-901 1.757 5.41327 .010642 -.14510 .31593 .31574 .14057 .1767

-901 1.757 5.41327 .010642 .30852 .31693 .31574 .14057 .17683

-900 8.457 5.39630 .44847 -.33544 .30498 .30518 .12653 .17695

-910 6.212 5.33451 .55940 -.37665 .30273 .30272 .12657 .17985

-910 8.457 5.36920 .44847 -.33544 .30498 .30518 .12287 .17985

-910 8.457 5.36920 -.37665 .30273 .30272 .12657 .17985

-910 8.457 5.36920 -.37665 .30273 .30272 .12657 .17985

RUN NO. 76/ 0 RN/L = 2.05 GRADLENI INTEKNIL - 5:00.

WICH ALPHA BETA CN CLM CA CAT CAFT CABT

979 -12.251 5.39700 -.85083 .14611 .40529 .40647 .16694 .23922

980 -9.805 5.41766 -.69324 .06567 .40678 .40702 .18087 .22815

980 -7.473 5.43287 -.25233 -.00590 .40702 .18087 .22815

980 -7.473 5.43287 -.25235 -.05530 .40702 .18087 .22815

980 -7.473 5.44369 -.29765 -.16746 .40599 .40702 .18087 .22922

980 -7.473 5.44369 -.2976 -.16748 .40595 .18673 .21984

980 8.460 5.39014 .46819 -.28575 .40182 .16534 .22322

980 8.460 5.39014 .46819 -.38505 .39712 .39719 .16534 .23185

980 10.702 5.35732 .59561 -.02499 .39232 .39261 .15980 .50010

SATE 12 JUL 74

(B@@016) (13 MAY 74)

PARAMETRIC DATA

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5.000 RUDDER =

BETA

REFERENCE DATA

976.0000 INCHES .0000 INCHES 400.0000 INCHES 7 2 E V SHEF = 2699.9999 50.Ft. LREF = 1295.3999 INCHES BREF = 1295.3599 INCHES SCALE = .0150 SCALE

RW.L = 2.11 GRADIENT INTERVAL = -5.60/ 5.00 0 /11

XXC/L .339425 .335384 .379438 .399649 .371803 989. 979. 979. 1979.

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CATE 12 JUL 74	7 Tr		TABULATE	TABILATED SOCICE DATA, LARC 8FT667 (1A-41)	I, LARC OFT.	-667 (14-41)	_			a .	PAGE 147
			LRC 8	LRC 8 TPT 667 1A41 T1P151F201	11P1 \$1 P2 00				(Beec: 7)		(13 MAY 74)
	REFERENCE DATA	CATA						A	PARAMETRIC DATA	1 1	
SHEFT :: LREFT :: BAEFT :: SCALE ::	2690.0000 90.FT. 1290.3000 INCHES 1290.3000 INCHES	S YNGP II		976.0000 INCHES			ВЕТА	" *	5.099 RU	RUCDER =	-20.096
		RUN NO.	86/ 0	RN/L = 3.18		SRADIENT INTERVAL =	-5.00/	5.00			
	HO THE	ALPHA	BETA	3	3	5	2	5	CABT		
	669.	-11.864	5.31337	81345	.20129	.28421	.28434	.08476	19958		
	009*	-9.450	5.35335	65819	.13505	.28595	.28602	.09303	.19300		
	.599	-7.210	5.38462	50907	.07316	.28664	.29667	.10146	.18521		
	559.	-4.971	5.40819	38205	.02381	.28599	.28600	.19722	.17878		
	593	-2.648	5.42874	25303	02358	.28419	.28421	.11137	.17284		
	69	458	5,45039	14091	06390	.28218	.28234	.11217	.17017		
	. 599	1.892	5.45422	02275	10368	.27716	.27746	.10858	.16888		
	.690	4.124	5.44359	.10020	14364	.27011	.27052	.15169	.16883		
	.599	6.359	5.41564	.22335	18190	.25985	.26082	.09018	17964		
	.599	8.711	5,38083	.35519	22605	.24547	.24673	.07749	.16925		
	. 599	10.965	5.34078	.49959	27788	.23039	.23171	.56348	.16823		
		GRADIENT	.00425	.05257	01826	00170	00166	00061	-,00105		
		RUN NO.	85/0 1	RAVL = 1.89		GRADIENT !NTERVAL =	-5.00/	5.00			
	HOW!	¥ 4	BETA	3	3	2	747	באבר	Zabz		
	267.	-11.393	5.21820	78060	.16903	30933	30899	11005	19804		
	109.	5.070	5.26490	62806	.10727	30738	30703	11524	19179		
	308.	-6.902	5.29200	48459	.05038	.30544	.30513	.12039	.18474		
	662.	4.723	5.31251	35541	.00074	30375	.30347	.12627	.17720		
	.798	-2.466	5.32727	22847	04633	30008	.29980	.12888	.17092		
	.799	260	5.33983	11019	08941	.29715	.29697	.12880	.16817		
	£.	1.893	5.34786	.00823	13294	.28971	.28953	.12408	.16544		
	.798	4.093	5,73509	.13618	17480	.28448	.28435	.1:600	.16835		
	. 799	6.353	5.31407	.26875	22191	.27908	.27912	.10845	.17566		
	89 .	8.541	5.28421	.39905	27284	.27619	.27626	.10628	.16998		
	.799	10.756	5.25355	. 52092	32036	,27580	.27587	.10505	.17562		
		GRADIENT	.00282	.05547	01990	00222	00220	00115	00156		

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LRC 8 TPT 667 1A41 11P151P201

PARAMETRIC DATA

-20.000 5.000 RUDDER = BETA

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	-5.00
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	TATEDVAL
	1917 2- 2 INTENT INTENT :- S. 1917
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333	5
888	•
# 976,0000 INCHES # 490,0000 INCHES	
THE HE HE HE	
SA.FT. INCHES INCHES SCALE	
= 2690.0000 84.FT. = 1295.3000 INCHES = 1290.3000 INCHES = .0150 SCALE	
49 48 49 48	

976.0000 INCHES .0000 INCHES 400.0000 INCHES

REFERENCE DATA

	RUN ND.	2 0	BNL =	2.8	GRADIENT	INTERVAL =	-5.00/	5.00	
	70	BETA	3				5	CAFT	CABT
		A ACTOR	A18.		_		34102	13344	.2075
5	353	5 34340				_	.33857	.13646	20010
9 8	100 K	8 47266	A75			_	.33857	.14364	.19493
3 8	500.	4 A0800	73.4				.33777	.14815	.18967
200	200.	A 404 PS	100				.33571	.15139	.18432
356	198	5. A11 74	790				.33161	.14982	.18179
8	400	S. 41293	.068	•			.32824	.14813	.18511
3	4 194	5. ATARA	161				.32195	.14094	.18191
669	467 9	A ROSE	316				.31978	.13547	.18432
000	6 564	A AZDOB	12.	-			.31843	.13336	.18538
660	10 PE	5.3301A	269	-			.31482	.13976	.16496
ha.	GRADIENT	.00198	.05883	•	02226	0017	00175	00086	••0000

	CABT	.24300	.23676	.23119	.22482	.22263	26222.	.22677	.2271	.23257	.23486	.23485	.00043
5.00	CAFT	.17897	.18771	.19157	.19854	.20126	.20165	.19489	.18879	.18246	.17286	.16752	00114
-5.00/	5	.42197	.42447	.42277	.42336	.42409	.42457	.42166	.41650	.41503	40772	.40237	00071
INTERML =	5	.42095	.42393	.42258	.42335	.42411	.42464	.42185	.41658	.41513	40779	40241	00070
GRADIENT	Ğ	.14577	.07132	.00381	-,05464	-,10440	15922	21822	27862	33229	38468	42817	02466
RW. = 2.05	3	87543	10569	51988	36863	22989	08636	05894	20384	SATOR.	47545	60350	.06293
0 /9	RETA	5.47456	\$ 42639	5.43723	5. AA7110	5 45096	4.45036	S. 44248	5 44463	5 42101	A 38724	A 454 A	00028
RUN ND.	7	***	11.36. 1.0 654	7.26	000	936.4	474		760-1	361-1		50.0	GRADIENT
	3	5 8	r e	100		ė į	B a	106.		r e			9.6

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(17-4)
145-17
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TABULATED SOURCE DATA, LA

REFERENCE DATA

CATE 12 JUL 74

-23.50

(B28617) (13 4AY 74 PARAMETRIC DATA LRC r TPT 667 1A41 T1P151F201

5.000 RUCSER = BETA 976.0000 INCHES .0000 INCHES 400.0000 INCHES SAEF = 2690.9000 SQ.FT.

LREF = 1290.3000 INCHES

BAEF = 1290.3000 INCHES

SCALE = .0150 SCALE

.2023. .20252. .19563. .19563. .19466. .18265. .19671. .19161. .19544. .19954. CAFT .26082 .26267 .26112 .27117 .27117 .27117 .26674 .26674 .25694 .25652 .23652 GRADIENT INTERVAL = -5.60/ 5.00 .46513 .46519 .46519 .46000 .45617 .45501 .45600 .44158 .42563 .46593 .46597 .46597 .46897 .4564 .4564 .4517 .4974 .4172 .4312 .43312 .42597 CLM .07645 .04600 -.02590 -.08593 -.14457 -.20121 -.30722 -.35609 -.40494 -.44169 RN/L = 2.11 CN -.7537 -.72109 -.53574 -.37309 -.21488 -.106141 .06466 .35139 -48970 -48970 -61668 EETA 5.50643 5.50443 5.50443 5.5046 5.50346 5.51766 5.5271 5.52164 5.4552 5.44652 95/ O ALPHA -10.919 -9.979 -7.557 -5.214 -2.832 -.469 1.915 4.134 6.438 6.748 11.084 GRADIENT RUN NO.

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